Glendale River Daily Water Temperature, 1998-2003

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V9T 6N7

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Table of Contents

Table of Contents iii
List of Tables iv
List of Figures iv
Abstract v
Résumé v
1 Introduction 1
2 Methods 1
2.1 Study Area 1
2.2 Site Description 2
2.3 Equipment 2
2.4 Temperature Logger Calibration 2
2.5 Data Handling 2
3 Results 4
3.1 Yearly Summaries 4
4 Acknowledgements 9
5 Data Access 9
Appendices 11

List of Tables

Table 1 Temperature Logger Locations 2
Table 2 Terms used in Yearly Summaries 4
Table 3 Period of Data Collection for Year Summaries 4
Table 4 Glendale Lake Water Temperatures 5
Table 5 Glendale Spawning Channel Water Temperatures 6

List of Figures

Figure 1 Study Area 1
Figure 2 Glendale Lake Water Temperatures 7
Figure 3 Glendale Channel Water Temperatures 8

ABSTRACT

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In 1998, as part of a study to observe the effects of high water temperature on the maturation of salmonid adults and egg development, water temperature loggers were used to determine the temperature regime in the Glendale River system. Water temperatures were recorded every 15 minutes at the head of the Glendale spawning channel and the outlet of Glendale Lake. This report summarises temperature data from October 1998 to November 2003 for the Glendale spawning channel and from October 2000 to October 2003 for the outlet of Glendale Lake. The data are presented in both daily and monthly mean, minimum and maximum formats.

RÉSUMÉ

Sweeten, T. 2004. Glendale River daily water temperature, 1998-2003. Can. Data Rep. Fish. Aquat. Sci. 1134: v + 47 p.

En 1998, dans le cadre d'une étude visant à observer les effets d'une température élevée sur la maturation des salmonidés adultes et le développement des œufs, nous avons installé des enregistreurs chronologiques de la température de l'eau pour établir le régime thermique du réseau de la rivière Glendale. Les températures de l'eau ont été enregistrées à toutes les 15 minutes au fond du chenal de fraye de la Glendale et à la sortie du lac Glendale. Ce rapport synthétise les données sur la température allant d'octobre 1998 à novembre 2003 pour le chenal de fraye, et d'octobre 2000 à octobre 2003 pour l'émissaire du lac Glendale. Les données sont présentées sous la forme des moyennes, des minimums et des maximums quotidiens et mensuels.

1 Introduction

In 1998, as part of a study to observe the effects of high water temperature on the maturation of salmonid adults and egg development, water temperature loggers were used to determine the temperature regime in the Glendale River system. This work was initiated by W.E. McLean (Habitat Enhancement Branch, Pacific Region). Onset temperature loggers were used for the collection of data over long time periods with high temporal resolution. In this report the data summaries are collected from the outlet of Glendale Lake (#1, Fig. 1)and the inlet of Glendale Spawning Channel (#2, Fig.1; water supply from Tom Browne Lake).

2 Methods

2.1 Study Area

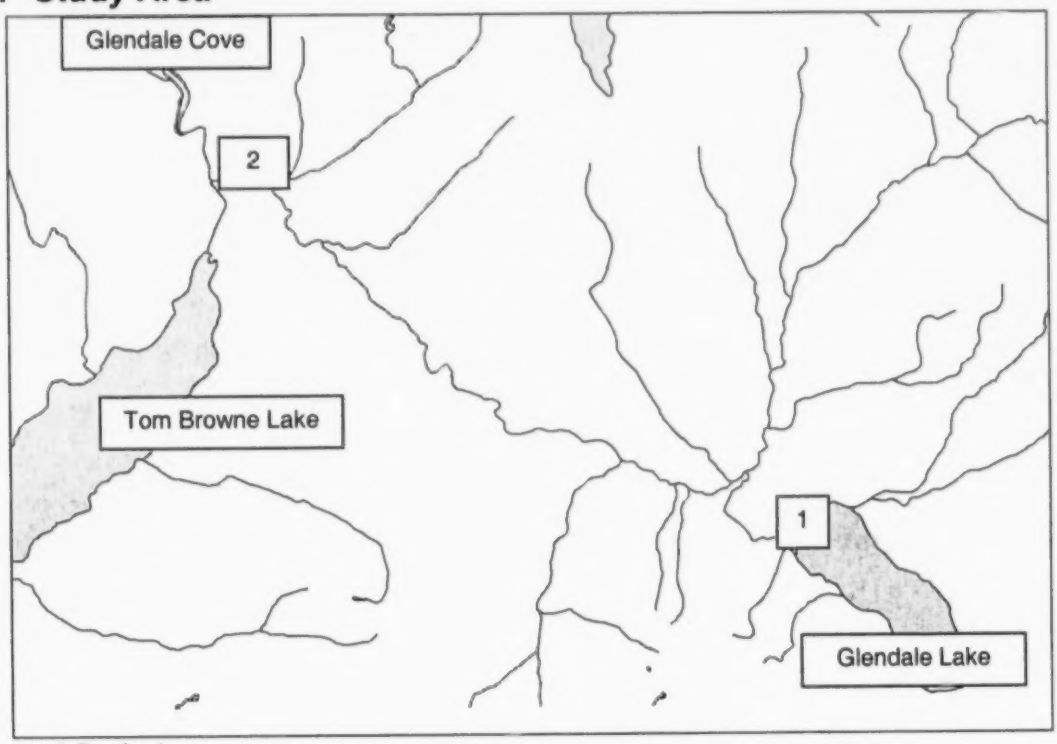

Figure 1 Study Area
Glendale Spawning Channel is a Fisheries and Oceans Canada, Habitat and Enhancement Branch Pink Salmon spawning channel located in Knight Inlet, on the south coast of British Columbia, Canada.

2.2 Site Description

The latitude-longitude coordinates and placement descriptions, for the two sampling locations, are listed in Table 1.

Table 1 Temperature Logger Locations

Site Number	Site Name	Spatial Location	Logger Location
1	Glendale Lake	Lat W 125.645024 Long N 50.650656	Temperature logger mounted at outlet of fishway on DFO weir at the outlet of the lake.
2	Glendale Channel	Lat W 125.722159 Long N 50.651121	Temperature logger is mounted on diffuser box at the inlet to the Glendale Spawning Channel

2.3 Equipment

Onset Stowaway and Tidbit temperature loggers manufactured by the Onset Corporation of Pacasset Massachsetts were used in this study. These loggers are waterproof and communicate to the base station and/or a data shuttle by an infrared link. The Tidbit loggers were set to log a temperature value every fifteen minutes starting at the top of the hour, or ninety-six samples per day. In the first two years of the study Stowaway units were used. They have a temperature range of -4C to 38 C, a resolution 0.16 C and a memory capacity of 8192 bytes. At a fifteen-minute logging interval this gives an 82-day deployment time. The Tidbit has a temperature range of –4C to 37 C, a resolution 0.16 C and a memory capacity of 32768 bytes. With a fifteen-minute logging interval, the deployment time is ten and a half months. To collect the data in the field, an Onset Optic Shuttle was used. This unit downloads data from the logger and restarts it. The shuttle can hold the contents of four fully loaded Tidbits (128 K bytes). The contents of both the shuttle and logger can be downloaded at the base station attached to a Windows-based computer.

2.4 Temperature Logger Calibration

All temperature loggers were calibrated before and after being placed in the field. Loggers were also recalibrated every two years while in service. To calibrate a logger, it was set to record every minute and placed in a temperature-controlled water bath. The water bath temperature was increased from 1 C to 30 C in 3-degree intervals, with temperature being held for 30 minutes each interval. At the end of the interval the temperature was recorded with a standardized thermometer. After calibration, the logger was downloaded and a linear regression was applied to the data to determine a correction factor. In most cases the R^2 was greater than 95%; anything less and the temperature logger was recalibrated. If a logger was placed in the field without being calibrated it was noted in the monthly summary as uncorrected. This only happened at the beginning of the study.

2.5 Data Handling

Data were generally downloaded monthly from all loggers using the Optic Shuttle in the field. The raw DTF file (original file format that the logger uses) was converted by the Onset

software Boxcar 4.0 to a text file. At this time the DTF files were given a unique file name and stored in a data archive. Boxcar 4.0 corrects for Daylight Saving Time; this change was noted in the monthly summaries. The text file was imported in to a customized Access 2.0 Database called Watprobe (MicroCoast Solutions, Nanaimo BC). This custom database was written to maintain and manage the large amount of data from these loggers. The data were imported into the database and edited for any known data errors (e.g. the probe out of the water before and after deployment or at time of download). Watprobe produces an Excel file with the Daily Mean, Minimum, Maximum, Standard Deviation and Number of Samples taken per day. These data were calibrated to give corrected temperatures and were appended to the master Excel spreadsheet for each site. This master spreadsheet was used to determine the monthly and yearly summaries.

3 Results

3.1 Yearly Summaries

Descriptions of terms used in the yearly temperature summaries are listed in Table 2. The periods of data collection for each location are listed in Table 3. Table 4 lists monthly summaries of temperatures at the outlet of Glendale lake, while Table 5 lists monthly summaries of temperatures at the inflow to the Glendale spawning channel. A more detailed description of the temperature regimes for the two sample locations is illustrated in Figs 2 and 3; showing daily means, minima, and maxima. The Appendices (Appendix A: Glendale Lake temperatures and Appendix B: Glendale Channel temperatures) list the data plotted in Figs 2 and 3.

Table 2 Terms used in Yearly Summaries

Max Mean	Monthly Average of Daily Maximum Water Temperature
Min Mean	Monthly Average of Daily Minimum Water Temperature
Mean	Monthly Average of Daily Mean Water Temperature
N	Number of days in the Month
Max	Maximum Water Temperature for the Month
Min	Minimum Water Temperature for the Month

Table 3 Period of Data Collection for Yearly Summaries

Site Name	Period of Data Collection
Glendale Lake	October 2000 to October 2003
Glendale Channel	October 1998 to November 2003

Table 4 Glendale Lake Water Temperatures

Glendale Lake

Month	Jan-2000	Feb-2000	Mar-2000	Apr-2000	May-2000	Jun-2000	Jul-2000	Aug-2000	Sep-2000	Oct-2000	Nov-2000	Dec-2000
Max Mean										11.66	9.28	6.63
Min Mean										9.20	6.07	2.45
Mean										10.28	7.41	4.38
N										20	30	31
max										11.91	9.44	6.83
min										8.38	5.59	1.38
Month	Jan-2001	Feb-2001	Mar-2001	Apr-2001	May-2001	Jun-2001	Jul-2001	Aug-2001	Sep-2001	Oct-2001	Nov-2001	Dec-2001
Max Mean	4.35	4.11	6.29	8.98	12.87	17.99	20.85	19.89	16.30	12.88	8.46	5.69
Min Mean	3.37	1.82	3.83	5.32	8.23	11.87	17.38	15.69	12.99	8.46	5.81	3.54
Mean	3.88	3.49	4.82	7.49	10.56	14.94	18.44	17.23	14.91	10.56	7.50	4.68
N	31	28	31	30	31	30	31	31	30	31	30	31
max	4.51	4.97	6.68	10.22	15.01	19.79	22.91	21.25	16.90	13.51	8.87	5.95
min	2.63	0.58	3.43	4.51	7.61	11.30	16.58	14.23	12.69	8.07	5.63	3.31
Month	Jan-2002	Feb-2002	Mar-2002	Apr-2002	May-2002	Jun-2002	Jul-2002	Aug-2002	Sep-2002	Oct-2002	Nov-2002	Dec-2002
Max Mean	4.93	4.17	5.37	10.53	14.57	20.39	20.14	20.60	18.13	13.97	9.16	7.07
Min Mean	3.12	3.12	2.93	4.93	10.77	12.75	16.50	17.28	13.90	8.75	6.70	4.45
Mean	4.12	3.77	4.02	7.12	12.87	16.56	18.38	18.75	15.93	12.12	8.09	6.02
N	31	28	31	30	31	30	31	31	30	31	30	31
max	5.17	4.56	6.10	12.90	16.64	22.82	21.65	22.15	19.53	14.29	9.34	7.30
min	2.52	2.95	2.19	4.24	9.80	12.13	15.49	16.80	13.51	8.56	6.52	4.04
Month	Jan-2003	Feb-2003	Mar-2003	Apr-2003	May-2003	Jun-2003	Jul-2003	Aug-2003	Sep-2003	Oct-2003	Nov-2003	Dec-2003
Max Mean	5.42	5.47	6.44	13.35	14.94	19.38	21.48	21.39	18.54	15.70		
Min Mean	4.05	4.19	3.52	5.92	9.65	14.25	18.26	15.05	14.69	12.11		
Mean	4.83	4.97	5.30	7.56	12.40	16.96	19.65	19.51	16.46	13.92		
N	31	28	31	30	31	30	31	31	30	14		
max	5.60	6.07	6.83	16.43	16.75	17.07	23.27	22.60	19.48	16.28		
min	3.58	3.89	2.94	5.60	8.84	7.92	16.91	14.08	14.08	11.92		

Table 5 Glendale Spawning Channel Water Temperatures

Month	Jan-1998	Feb-1998	Mar-1998	Apr-1998	May-1998	Jun-1998	Jul-1998	Aug-1998	Sep-1998	Oct-1998	Nov-1998	Dec-1998
Max Mean										15.36	10.28	6.61
Min Mean										10.31	6.75	4.52
Mean										12.46	8.25	5.61
N										31	30	31
max										16.22	10.46	6.75
min										10.31	6.75	4.41
Month	Jan-1999	Feb-1999	Mar-1999	Apr-1999	May-1999	Jun-1999	Jul-1999	Aug-1999	Sep-1999	Oct-1999	Nov-1999	Dec-1999
Max Mean	4.75	4.15	5.15	11.29	13.85	17.07	20.22	21.12	17.86	14.22	9.33	6.52
Min Mean	3.83	3.72	3.99	4.93	9.61	13.17	14.80	18.05	14.40	9.56	6.64	4.99
Mean	4.38	3.92	4.47	7.39	11.89	15.51	17.40	19.49	16.40	12.11	7.50	5.71
N	31	28	31	30	[illegible]	30	31	31	30	31	30	31
max	4.98	4.41	5.50	13.09	15.11	18.13	20.56	21.90	18.78	14.96	10.05	7.11
min	3.78	3.47	3.78	4.56	9.06	12.63	14.48	17.17	14.01	9.46	6.51	4.96
Month	Jan-2000	Feb-2000	Mar-2000	Apr-2000	May-2000	Jun-2000	Jul-2000	Aug-2000	Sep-2000	Oct-2000	Nov-2000	Dec-2000
Max Mean	5.01	3.92	7.50	9.86	15.50	19.11	21.68	20.42	17.93	15.64	10.40	7.05
Min Mean	3.35	3.25	3.61	4.85	8.23	13.48	17.06	17.26	15.67	10.55	6.85	3.91
Mean	4.12	3.60	4.59	7.91	11.87	15.53	18.88	19.07	16.67	12.90	8.30	5.39
N	31	29	31	30	31	30	31	31	30	31	30	31
max	5.55	4.61	8.35	10.36	15.97	19.98	22.62	21.28	20.47	16.25	10.46	7.20
min	3.07	3.07	3.23	4.45	7.42	12.22	16.45	17.08	14.66	10.46	6.74	3.29
Month	Jan-2001	Feb-2001	Mar-2001	Apr-2001	May-2001	Jun-2001	Jul-2001	Aug-2001	Sep-2001	Oct-2001	Nov-2001	Dec-2001
Max Mean	4.73	4.50	5.92	9.91	13.51	17.72	20.11	20.95	18.01	14.60	8.20	6.37
Min Mean	4.19	3.68	4.23	5.77	8.89	13.08	17.62	16.71	14.92	11.70	6.82	4.76
Mean	4.43	4.11	4.85	8.01	10.94	15.42	18.69	18.14	16.71	13.29	7.67	5.51
N	31	28	31	30	31	30	31	31	30	18	11	31
max	4.86	5.01	6.42	10.93	14.04	20.11	20.76	21.42	18.48	15.62	8.29	6.58
min	3.92	3.29	3.76	5.01	8.45	12.64	17.04	16.41	14.51	11.70	6.42	4.54
Month	Jan-2002	Feb-2002	Mar-2002	Apr-2002	May-2002	Jun-2002	Jul-2002	Aug-2002	Sep-2002	Oct-2002	Nov-2002	Dec-2002
Max Mean	5.26	4.46	4.50	10.26	14.86	19.17	20.74	20.29	19.48	14.69	9.98	7.65
Min Mean	3.86	3.96	3.31	4.21	8.20	13.58	16.79	18.59	15.04	10.25	7.44	5.30
Mean	4.71	4.26	3.87	6.12	12.18	16.71	18.48	19.17	16.98	12.88	8.83	6.60
N	31	28	31	30	31	30	31	31	30	31	30	31
max	5.33	4.70	5.01	12.32	15.62	19.79	21.58	21.58	20.11	15.19	10.52	7.68
min	3.61	3.76	2.81	3.92	6.74	11.70	16.41	17.84	14.54	9.90	7.37	5.20
Month	Jan-2003	Feb-2003	Mar-2003	Apr-2003	May-2003	Jun-2003	Jul-2003	Aug-2003	Sep-2003	Oct-2003	Nov-2003	Dec-2003
Max Mean	5.80	5.57	6.64	9.89	14.38	18.43	20.05	21.70	18.43	15.48	8.72	
Min Mean	4.72	4.94	4.21	6.20	10.48	13.60	18.28	17.82	15.02	8.13	6.96	
Mean	5.31	5.24	5.55	7.52	12.43	16.88	19.08	20.03	16.72	12.94	7.56	
N	31	28	31	30	31	30	31	31	30	31	19	
max	5.97	5.81	7.06	11.52	15.87	19.22	20.99	22.48	19.70	16.58	8.98	
min	4.41	4.57	4.10	5.65	9.51	12.30	17.77	17.29	14.38	7.44	6.82	

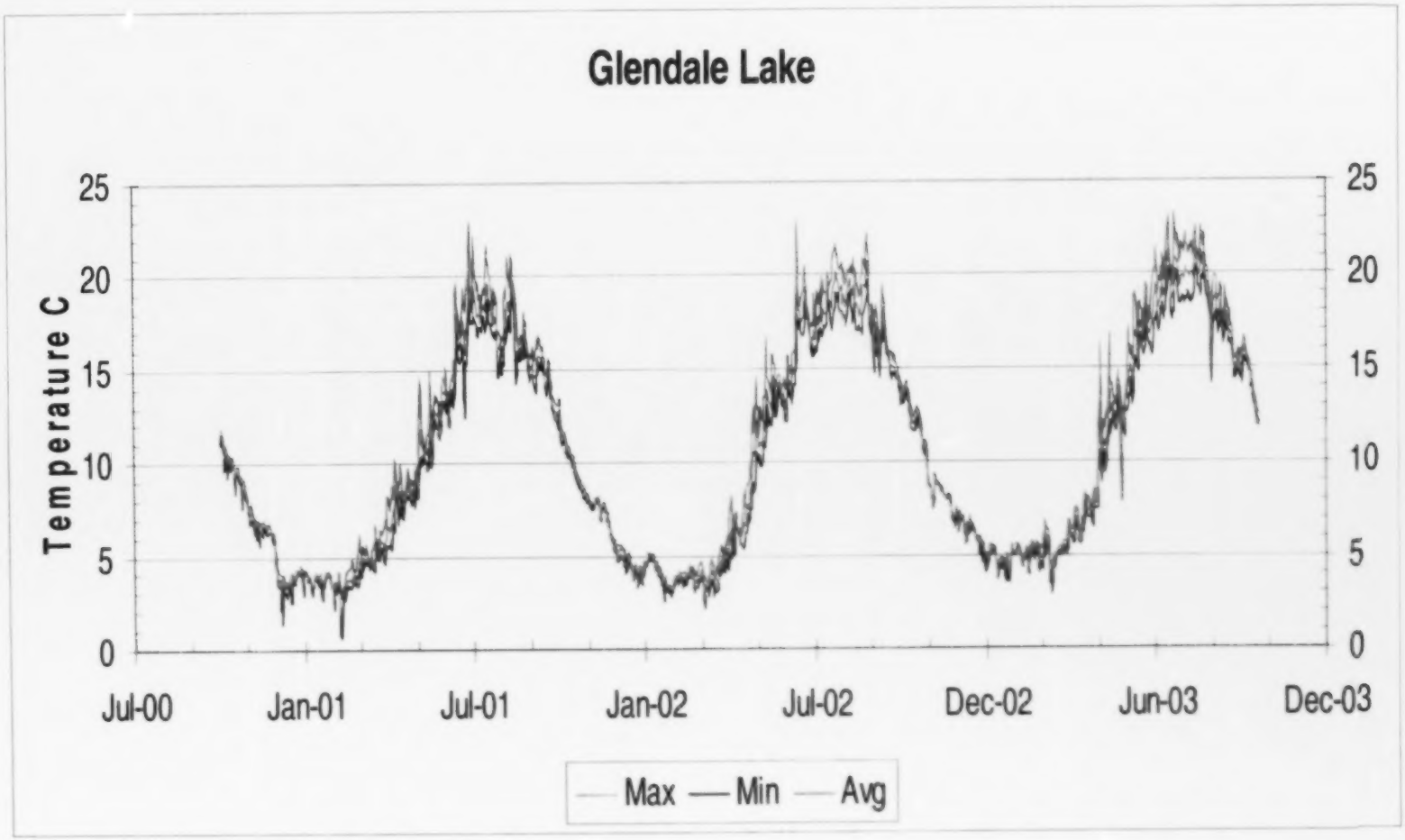

Figure 2 Glendale Lake Water Temperatures

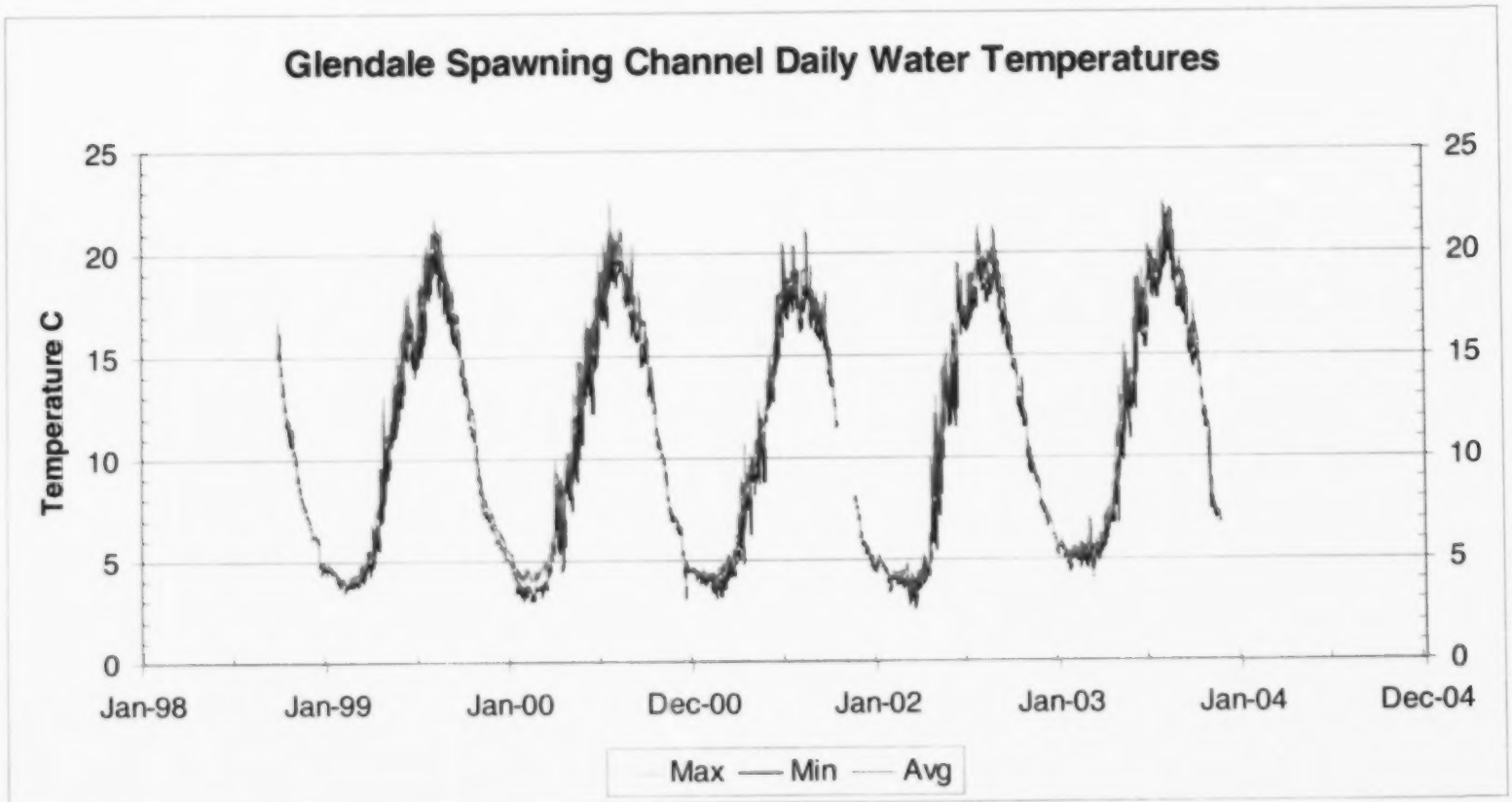

Figure 3 Glendale Channel Water Temperatures

4 Acknowledgements

The author wishes to thank Chris Beggs and the staff of Puntledge Hatchery for collecting the data from the data loggers on their trips the spawning channel, John Jensen and Bill Mclean for their support over the years, Brian Pearce for funding in the early years, and Bonnie Antcliffe's encouragement in the later years of the study.

5 Data Access

To request detailed temperature data records (i.e. with 15-minute intervals) please email the author at Sweetent@pac.dfo-mpo.gc.ca.

Appendices

Quarterly Summaries

Terms used in the summary; explained

Max	Average Daily Maximum Water Temperature
Min	Average Daily Minimum Water Temperature
Mean	Average Daily Water Temperature
N	Number of samples taken that day
Stdev	Standard Deviation of the samples
Longitude	Longitude of the Temperature Logger: Degrees Minutes
Latitude	Latitude of the Temperature Logger: Degrees Minutes
UTM E	Universal Transverse Mercator East Grid Location
UTM N	Universal Transverse Mercator North Grid Location
Calibration Date	Date the Temperature Logger was calibrated
Correction Factor a	Y intercept for the correction equation
Correction Factor b	Slope for the correction equation

Period of Data Collection

Site Name	Appendix	Period of Data Collection
Glendale Lake	A	October 2000 to October 2003
Glendale Channel	B	October 1998 to November 2003

Appendix A: Glendale Lake Water Temperatures

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304568

Temperature Correction Factor
Calibration Date 17-Feb-00
a= 0.071110212
b= 0.9958748

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2000							11/1/2000	9.29	8.98	9.21	0.09	96		12/1/2000	6.68	6.22	6.56	0.14	96	
10/2/2000							11/2/2000	9.44	9.14	9.28	0.14	96		12/2/2000	6.83	6.37	6.63	0.14	96	
10/3/2000							11/3/2000	9.29	8.98	9.23	0.09	96		12/3/2000	6.68	6.37	6.54	0.09	96	
10/4/2000							11/4/2000	9.29	7.61	8.86	0.44	96		12/4/2000	6.52	6.22	6.37	0.13	96	
10/5/2000							11/5/2000	9.14	8.68	8.95	0.10	96		12/5/2000	6.37	6.06	6.16	0.10	96	
10/6/2000							11/6/2000	9.14	8.68	8.90	0.16	96		12/6/2000	6.22	5.75	5.96	0.09	96	
10/7/2000							11/7/2000	8.98	8.53	8.73	0.08	96		12/7/2000	6.37	6.06	6.23	0.10	96	
10/8/2000							11/8/2000	8.82	8.07	8.51	0.19	96		12/8/2000	6.22	5.75	5.99	0.13	96	
10/9/2000							11/9/2000	8.07	7.76	7.87	0.12	96		12/9/2000	5.75	4.82	5.20	0.26	96	
10/10/2000							11/10/2000	7.76	7.46	7.63	0.09	96		12/10/2000	4.97	4.19	4.72	0.22	96	
10/11/2000							11/11/2000	7.76	7.15	7.40	0.21	96		12/11/2000	4.51	3.58	4.13	0.26	96	
10/12/2000	11.91	11.00	11.56	0.27	53	Installed	11/12/2000	7.61	6.68	7.28	0.21	96		12/12/2000	4.19	3.43	3.72	0.28	96	
10/13/2000	11.91	11.45	11.66	0.16	96		11/13/2000	7.92	6.99	7.50	0.33	96		12/13/2000	4.04	3.27	3.79	0.24	96	
10/14/2000	11.76	11.15	11.40	0.20	96		11/14/2000	7.76	6.99	7.44	0.17	96		12/14/2000	4.04	2.15	3.12	0.57	96	
10/15/2000	11.30	10.54	10.99	0.20	96		11/15/2000	7.30	6.68	7.04	0.17	96		12/15/2000	4.04	2.95	3.45	0.34	96	
10/16/2000	10.85	9.60	10.38	0.36	96		11/16/2000	6.68	6.22	6.46	0.10	96		12/16/2000	3.43	1.38	2.45	0.80	96	
10/17/2000	10.85	9.75	10.43	0.39	96		11/17/2000	7.15	6.37	6.75	0.26	96		12/17/2000	3.89	3.43	3.62	0.16	96	
10/18/2000	11.00	10.54	10.78	0.13	96		11/18/2000	6.83	6.37	6.67	0.13	96		12/18/2000	4.04	3.43	3.79	0.17	96	
10/19/2000	10.89	10.22	10.55	0.12	96		11/19/2000	6.52	5.91	6.17	0.19	96		12/19/2000	3.74	3.11	3.53	0.16	96	
10/20/2000	10.38	9.29	10.07	0.29	96		11/20/2000	6.99	6.52	6.75	0.09	96		12/20/2000	3.58	2.79	3.24	0.22	96	
10/21/2000	10.54	10.22	10.28	0.09	96		11/21/2000	6.99	6.22	6.71	0.24	96		12/21/2000	3.74	3.11	3.40	0.20	96	
10/22/2000	10.22	9.75	9.92	0.16	96		11/22/2000	6.68	5.59	6.07	0.35	96		12/22/2000	3.58	3.11	3.35	0.16	96	
10/23/2000	10.07	9.60	9.93	0.14	96		11/23/2000	6.68	6.37	6.53	0.13	96		12/23/2000	3.58	3.43	3.47	0.06	96	
10/24/2000	10.22	9.91	10.03	0.13	96		11/24/2000	6.83	6.37	6.65	0.17	94		12/24/2000	3.89	3.43	3.65	0.13	96	
10/25/2000	10.38	9.91	10.09	0.16	96		11/25/2000	6.83	6.06	6.67	0.21	96		12/25/2000	4.04	2.48	3.40	0.41	96	
10/26/2000	10.07	9.91	9.99	0.08	96		11/26/2000	6.83	6.52	6.66	0.12	96		12/26/2000	4.19	2.48	3.73	0.55	96	
10/27/2000	9.75	9.44	9.63	0.10	96		11/27/2000	6.99	6.83	6.86	0.06	96		12/27/2000	4.19	3.89	4.04	0.03	96	
10/28/2000	9.60	8.38	9.20	0.35	96		11/28/2000	6.83	6.52	6.73	0.07	96		12/28/2000	3.89	3.58	3.82	0.11	96	
10/29/2000	9.75	9.44	9.54	0.12	100	Standard	11/29/2000	6.52	6.22	6.38	0.11	96		12/29/2000	3.89	3.58	3.69	0.10	96	
10/30/2000	9.91	9.44	9.65	0.19	96		11/30/2000	6.68	6.22	6.46	0.11	96		12/30/2000	4.19	3.74	4.02	0.14	96	
10/31/2000	9.75	9.14	9.44	0.14	96									12/31/2000	4.35	4.19	4.20	0.04	96	
Oct-2000	Max	Min	Mean	Stdev	N		Nov-2000	Max	Min	Mean	Stdev	N		Dec-2000	Max	Min	Mean	Stdev	N	
Max	11.91	11.45	11.66	0.39	100.00		Max	9.44	9.14	9.28	0.44	96.00		Max	6.83	6.37	6.63	0.80	96.00	
Min	9.60	8.38	9.20	0.08	53.00		Min	6.52	5.59	6.07	0.06	94.00		Min	3.43	1.38	2.45	0.03	96.00	
Mean	10.55	9.93	10.28	0.19	94.05		Mean	7.66	7.09	7.41	0.17	95.93		Mean	4.70	4.01	4.38	0.21	96.00	
N	20	20	20	20	20		N	30	30	30	30	30		N	31	31	31	31	31	

Comments: Onset Tidbit 304568 install at the Outlet Wier of Glendale Lake
October 29 2000 change to Standard Time

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304568

Temperature Correction Factor
Calibration Date 17-Feb-00
a= 0.071110212
b= 0.9956748

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2001	4.35	4.19	4.24	0.07	96		2/1/2001	4.19	4.04	4.09	0.07	96		3/1/2001	4.35	3.74	3.93	0.21	96	
1/2/2001	4.35	4.04	4.21	0.07	96		2/2/2001	4.19	4.04	4.11	0.07	96		3/2/2001	4.04	3.58	3.83	0.21	96	
1/3/2001	4.35	4.19	4.27	0.08	96		2/3/2001	4.19	3.89	4.01	0.10	96		3/3/2001	4.35	3.89	4.07	0.17	96	
1/4/2001	4.19	4.04	4.17	0.05	96		2/4/2001	4.04	3.89	3.96	0.08	96		3/4/2001	4.35	3.43	3.87	0.34	96	
1/5/2001	4.51	4.19	4.35	0.09	96		2/5/2001	4.04	3.58	3.84	0.09	96		3/5/2001	4.51	3.43	3.86	0.40	96	
1/6/2001	4.19	3.74	4.04	0.11	96		2/6/2001	3.89	3.43	3.54	0.14	96		3/6/2001	5.28	3.43	4.18	0.66	96	
1/7/2001	4.04	2.95	3.69	0.25	96		2/7/2001	3.58	3.27	3.36	0.09	96		3/7/2001	6.22	4.04	4.88	0.74	96	
1/8/2001	4.35	4.04	4.22	0.11	96		2/8/2001	3.27	2.15	2.81	0.32	96		3/8/2001	5.75	4.35	4.94	0.45	96	
1/9/2001	4.19	4.04	4.18	0.03	96		2/9/2001	3.74	3.11	3.32	0.22	96		3/9/2001	4.97	4.04	4.39	0.29	96	
1/10/2001	4.35	4.04	4.25	0.10	96		2/10/2001	3.58	3.27	3.47	0.10	96		3/10/2001	5.44	3.89	4.59	0.57	96	
1/11/2001	4.19	4.04	4.06	0.05	96		2/11/2001	3.58	3.11	3.40	0.16	96		3/11/2001	5.59	4.51	4.90	0.29	96	
1/12/2001	4.04	3.74	3.91	0.10	96		2/12/2001	3.89	3.27	3.52	0.23	96		3/12/2001	5.28	4.35	4.84	0.30	96	
1/13/2001	4.04	3.89	3.94	0.07	96		2/13/2001	4.19	3.43	3.78	0.21	96		3/13/2001	5.13	4.66	4.87	0.18	96	
1/14/2001	3.89	3.43	3.76	0.12	96		2/14/2001	4.19	3.58	3.86	0.16	96		3/14/2001	5.75	4.51	4.98	0.48	96	
1/15/2001	3.74	3.27	3.50	0.16	96		2/15/2001	3.58	0.90	2.09	1.02	96		3/15/2001	5.44	4.66	4.90	0.24	96	
1/16/2001	3.74	2.95	3.45	0.14	96		2/16/2001	2.79	0.58	1.82	0.79	96		3/16/2001	4.97	4.66	4.86	0.09	96	
1/17/2001	3.58	3.43	3.48	0.06	96		2/17/2001	3.43	2.48	3.10	0.31	96		3/17/2001	4.82	4.66	4.73	0.06	96	
1/18/2001	3.74	3.43	3.60	0.10	96		2/18/2001	3.43	2.95	3.21	0.13	96		3/18/2001	4.66	4.35	4.60	0.08	96	
1/19/2001	4.04	3.74	3.96	0.10	96		2/19/2001	3.27	2.79	3.06	0.15	96		3/19/2001	4.66	4.51	4.56	0.07	96	
1/20/2001	4.04	3.89	4.03	0.04	96		2/20/2001	3.58	2.63	3.06	0.37	96		3/20/2001	5.13	4.51	4.74	0.22	96	
1/21/2001	4.19	3.89	4.05	0.09	96		2/21/2001	4.19	3.11	3.56	0.36	96		3/21/2001	5.28	4.51	4.81	0.24	96	
1/22/2001	4.04	3.74	3.93	0.09	96		2/22/2001	4.04	3.58	3.74	0.18	96		3/22/2001	5.44	4.35	4.68	0.37	96	
1/23/2001	3.89	3.43	3.68	0.15	96		2/23/2001	4.35	3.43	3.84	0.22	96		3/23/2001	6.06	4.19	4.98	0.61	96	
1/24/2001	3.89	3.58	3.71	0.13	96		2/24/2001	4.35	3.27	3.71	0.34	96		3/24/2001	6.89	5.91	6.29	0.29	96	
1/25/2001	4.19	3.74	3.91	0.12	96		2/25/2001	4.35	3.43	3.76	0.33	96		3/25/2001	5.91	4.97	5.36	0.28	96	
1/26/2001	3.74	3.11	3.43	0.15	96		2/26/2001	4.51	3.27	3.72	0.43	96		3/26/2001	5.91	4.97	5.41	0.31	96	
1/27/2001	3.74	2.63	3.37	0.26	96		2/27/2001	4.97	3.27	3.86	0.56	96		3/27/2001	5.44	4.82	5.13	0.15	96	
1/28/2001	3.74	3.27	3.55	0.15	96		2/28/2001	4.66	3.58	4.09	0.25	96		3/28/2001	5.91	4.82	5.27	0.30	96	
1/29/2001	3.89	3.43	3.67	0.11	96									3/29/2001	5.44	4.82	5.13	0.19	96	
1/30/2001	4.04	3.58	3.79	0.18	96									3/30/2001	6.52	4.97	5.67	0.57	96	
1/31/2001	4.19	3.89	4.00	0.11	96									3/31/2001	6.22	5.44	5.80	0.23	96	
Jan-2001	Max	Min	Mean	Stdev	N		Feb-2001	Max	Min	Mean	Stdev	N		Mar-2001	Max	Min	Mean	Stdev	N	
Max	4.51	4.19	4.35	0.26	96.00		Max	4.97	4.04	4.11	1.02	96.00		Max	6.89	5.91	6.29	0.74	96.00	
Min	3.58	2.63	3.37	0.03	96.00		Min	2.79	0.58	1.82	0.07	96.00		Min	4.04	3.43	3.83	0.07	96.00	
Mean	4.05	3.66	3.88	0.11	96.00		Mean	3.93	3.12	3.49	0.27	96.00		Mean	5.34	4.42	4.82	0.31	96.00	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304588

Temperature Correction Factor
Calibration Date 17-Feb-00
a= 0.0711102212
b= 0.9956748

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/2001	6.52	5.13	5.66	0.44	92		5/1/2001	8.53	8.07	8.23	0.14	96		6/1/2001	12.54	11.30	11.87	0.44	96	
4/2/2001	6.52	4.82	5.40	0.52	96		5/2/2001	9.14	7.76	8.48	0.47	96		6/2/2001	13.31	11.60	12.32	0.59	96	
4/3/2001	6.68	4.51	5.32	0.73	96		5/3/2001	8.98	8.53	8.71	0.13	96		6/3/2001	13.16	11.76	12.42	0.42	96	
4/4/2001	6.99	4.82	5.82	0.84	96		5/4/2001	8.68	8.07	8.53	0.20	96		6/4/2001	14.69	12.38	13.76	0.77	96	
4/5/2001	6.52	5.59	5.91	0.25	96		5/5/2001	9.14	7.61	8.30	0.42	96		6/5/2001	14.54	13.31	13.89	0.43	96	
4/6/2001	8.22	5.44	6.47	0.98	96		5/6/2001	9.60	7.61	8.57	0.80	96		6/6/2001	14.07	13.16	13.65	0.21	96	
4/7/2001	8.22	5.59	6.62	0.92	96		5/7/2001	9.29	8.98	9.13	0.13	96		6/7/2001	15.17	12.86	13.93	0.85	96	
4/8/2001	7.46	5.59	6.37	0.52	96		5/8/2001	9.91	8.22	9.03	0.41	96		6/8/2001	14.54	13.76	14.16	0.24	96	
4/9/2001	7.76	5.44	6.46	0.80	96		5/9/2001	9.75	8.07	8.77	0.54	96		6/9/2001	13.92	12.69	13.47	0.32	96	
4/10/2001	8.22	5.91	6.74	0.72	96		5/10/2001	11.15	8.53	9.78	1.05	96		6/10/2001	13.76	13.06	13.40	0.26	96	
4/11/2001	8.82	5.28	6.78	1.26	96		5/11/2001	14.69	10.07	11.78	1.56	96		6/11/2001	13.62	12.67	12.81	0.44	96	
4/12/2001	8.07	6.68	7.45	0.45	96		5/12/2001	12.07	10.38	11.42	0.49	96		6/12/2001	13.46	11.91	12.61	0.50	96	
4/13/2001	8.38	6.52	7.36	0.63	96		5/13/2001	11.91	9.91	11.07	0.70	96		6/13/2001	14.67	13.06	13.91	0.38	96	
4/14/2001	9.91	6.37	8.06	1.32	96		5/14/2001	11.45	10.07	10.78	0.40	96		6/14/2001	14.69	13.62	14.00	0.33	96	
4/15/2001	10.22	7.76	8.87	0.89	96		5/15/2001	10.85	10.38	10.59	0.15	96		6/15/2001	14.38	13.06	13.62	0.47	96	
4/16/2001	8.98	8.38	8.74	0.16	96		5/16/2001	11.00	10.22	10.59	0.27	96		6/16/2001	15.49	13.06	14.09	0.82	96	
4/17/2001	8.38	7.30	8.06	0.25	96		5/17/2001	10.69	10.22	10.39	0.12	96		6/17/2001	15.64	13.76	14.58	0.73	96	
4/18/2001	8.08	6.68	7.65	0.71	96		5/18/2001	11.45	10.07	10.78	0.59	96		6/18/2001	19.14	13.76	16.01	2.02	96	
4/19/2001	9.29	7.76	8.37	0.48	96		5/19/2001	11.60	9.60	10.54	0.55	96		6/19/2001	19.79	16.11	17.88	1.37	96	
4/20/2001	10.07	7.30	8.55	0.77	96		5/20/2001	11.60	9.60	10.54	0.76	96		6/20/2001	18.50	17.70	17.98	0.20	96	
4/21/2001	9.29	7.15	8.36	0.57	96		5/21/2001	12.69	11.15	11.70	0.59	96		6/21/2001	17.86	15.64	16.91	0.76	96	
4/22/2001	8.98	8.53	8.72	0.12	96		5/22/2001	15.01	10.07	12.47	1.32	96		6/22/2001	17.70	15.48	16.45	0.74	96	
4/23/2001	8.38	7.76	8.05	0.17	96		5/23/2001	11.30	9.75	10.39	0.48	96		6/23/2001	16.74	15.33	16.12	0.49	96	
4/24/2001	8.22	6.99	7.73	0.39	96		5/24/2001	11.76	9.91	10.61	0.64	96		6/24/2001	18.02	15.80	16.84	0.86	96	
4/25/2001	8.38	7.92	8.06	0.15	96		5/25/2001	12.69	10.38	11.48	0.70	96		6/25/2001	17.70	16.42	17.06	0.39	96	
4/26/2001	8.98	8.07	8.56	0.24	96		5/26/2001	12.69	11.45	12.05	0.41	96		6/26/2001	19.46	16.11	17.62	1.34	96	
4/27/2001	8.98	8.38	8.60	0.16	96		5/27/2001	13.76	12.23	12.87	0.55	96		6/27/2001	18.66	13.76	17.60	0.73	96	
4/28/2001	9.75	8.22	8.98	0.60	96		5/28/2001	13.16	12.38	12.71	0.19	96		6/28/2001	18.18	12.38	15.89	1.32	96	
4/29/2001	9.60	8.07	8.84	0.36	96		5/29/2001	13.62	11.91	12.67	0.55	96		6/29/2001	18.18	15.48	16.48	0.75	96	
4/30/2001	8.82	8.07	8.38	0.24	96		5/30/2001	13.16	12.07	12.56	0.25	96		6/30/2001	19.62	16.17	17.36	1.64	96	
							5/31/2001	12.23	11.60	11.94	0.23	96								

Apr-2001	Max	Min	Mean	Stdev	N
Max	10.22	8.53	8.98	1.32	96.00
Min	6.52	4.51	5.32	0.12	92.00
Mean	8.44	6.73	7.49	0.55	95.87
N	30	30	30	30	30

May-2001	Max	Min	Mean	Stdev	N
Max	15.01	12.38	12.87	1.56	96.00
Min	8.53	7.61	8.23	0.12	96.00
Mean	11.41	9.83	10.56	0.51	96.00
N	31	31	31	31	31

Jun-2001	Max	Min	Mean	Stdev	N
Max	19.79	17.70	17.98	2.02	96.00
Min	12.54	11.30	11.87	0.20	96.00
Mean	16.02	13.84	14.94	0.69	96.00
N	30	30	30	30	30

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304568

Temperature Correction Factor
Calibration Date 17-Feb-00
a= 0.071110212
b= 0.9958748

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2001	20.27	17.38	18.69	0.94	96		8/1/2001	18.66	17.22	17.88	0.36	96		9/1/2001	16.90	15.80	16.30	0.30	96	
7/2/2001	21.58	18.82	19.96	0.97	96		8/2/2001	17.22	14.54	16.05	0.79	96		9/2/2001	16.27	15.64	16.01	0.19	96	
7/3/2001	22.91	19.30	20.85	1.33	96		8/3/2001	17.06	14.54	16.15	0.68	96		9/3/2001	16.11	15.01	15.57	0.37	96	
7/4/2001	21.41	17.54	18.62	0.92	96		8/4/2001	16.74	15.96	16.54	0.20	96		9/4/2001	15.80	14.54	15.40	0.35	96	
7/5/2001	20.43	17.54	18.78	0.98	96		8/5/2001	16.11	15.01	15.69	0.33	96		9/5/2001	15.49	14.38	14.84	0.37	96	
7/6/2001	18.98	17.70	18.28	0.49	96		8/6/2001	16.74	14.69	15.78	0.76	96		9/6/2001	15.80	14.69	15.13	0.38	96	
7/7/2001	18.50	17.54	17.96	0.32	96		8/7/2001	16.58	15.49	16.21	0.25	96		9/7/2001	16.27	14.69	15.33	0.46	96	
7/8/2001	22.25	17.86	19.52	1.66	96		8/8/2001	17.06	15.17	16.04	0.70	96		9/8/2001	15.17	14.38	14.74	0.21	96	
7/9/2001	20.27	17.70	18.87	0.85	96		8/9/2001	18.82	15.80	17.22	1.22	96		9/9/2001	15.64	14.07	14.62	0.50	96	
7/10/2001	19.30	17.38	18.22	0.61	96		8/10/2001	19.46	17.22	18.27	0.70	96		9/10/2001	15.64	13.92	14.54	0.50	96	
7/11/2001	19.79	16.90	17.92	0.98	96		8/11/2001	18.82	16.42	17.30	0.73	96		9/11/2001	16.27	13.76	14.78	0.92	96	
7/12/2001	19.62	16.74	17.93	0.99	96		8/12/2001	21.06	17.06	18.61	1.45	96		9/12/2001	16.58	14.85	15.59	0.52	96	
7/13/2001	18.82	17.22	17.96	0.54	96		8/13/2001	19.62	17.86	18.60	0.56	96		9/13/2001	16.11	14.69	15.21	0.49	96	
7/14/2001	18.98	17.22	17.90	0.61	96		8/14/2001	19.46	17.22	18.17	0.79	97		9/14/2001	16.90	14.85	15.74	0.75	96	
7/15/2001	18.02	17.22	17.57	0.25	96		8/15/2001	20.11	17.06	18.44	1.13	96		9/15/2001	16.58	15.33	15.79	0.37	96	
7/16/2001	18.66	17.06	17.77	0.61	96		8/16/2001	21.25	17.86	19.29	1.17	96		9/16/2001	15.96	15.01	15.44	0.31	96	
7/17/2001	18.66	17.06	17.88	0.54	96		8/17/2001	20.76	19.14	19.80	0.50	96		9/17/2001	15.96	15.01	15.40	0.33	96	
7/18/2001	19.46	17.86	18.51	0.50	96		8/18/2001	19.95	19.14	19.53	0.24	96		9/18/2001	16.27	15.64	15.89	0.23	96	
7/19/2001	18.98	17.22	18.12	0.62	96		8/19/2001	19.30	18.34	18.90	0.29	96		9/19/2001	15.80	14.69	15.36	0.38	95	
7/20/2001	19.79	17.06	18.22	1.04	96		8/20/2001	19.79	18.34	18.96	0.52	96		9/20/2001	15.64	14.85	15.21	0.24	96	
7/21/2001	21.75	17.54	19.25	1.55	96		8/21/2001	18.82	14.23	16.61	1.48	96	weather	9/21/2001	15.01	14.07	14.31	0.23	96	
7/22/2001	21.08	18.50	19.64	0.83	96		8/22/2001	17.06	14.69	16.58	0.51	96		9/22/2001	14.54	13.62	14.14	0.31	96	
7/23/2001	20.60	18.82	19.59	0.60	96		8/23/2001	16.90	15.96	16.44	0.26	96		9/23/2001	15.49	14.07	14.81	0.51	96	
7/24/2001	20.27	17.70	18.86	0.89	96		8/24/2001	16.11	15.64	15.97	0.13	96		9/24/2001	15.64	14.69	15.18	0.27	96	
7/25/2001	19.95	17.38	18.66	0.85	96		8/25/2001	16.11	15.49	15.69	0.20	96		9/25/2001	15.33	14.85	15.14	0.12	96	
7/26/2001	18.82	17.06	17.79	0.49	96		8/26/2001	16.90	15.49	16.11	0.52	96		9/26/2001	15.01	13.46	13.93	0.45	96	
7/27/2001	17.86	17.06	17.38	0.21	96		8/27/2001	16.58	15.96	16.26	0.11	96		9/27/2001	14.23	13.46	13.76	0.30	96	
7/28/2001	18.18	16.74	17.41	0.57	96		8/28/2001	16.27	15.64	15.99	0.17	96		9/28/2001	13.76	13.00	13.31	0.28	96	
7/29/2001	19.46	17.06	18.19	0.86	96		8/29/2001	18.18	15.64	16.84	0.84	96		9/29/2001	13.31	12.69	13.00	0.14	96	
7/30/2001	18.50	17.06	17.57	0.41	96		8/30/2001	17.70	16.58	17.09	0.43	96		9/30/2001	13.46	12.69	12.90	0.21	96	
7/31/2001	19.14	16.58	17.82	1.00	96		8/31/2001	17.54	16.42	16.99	0.32	96								
Jul-2001	Max	Min	Mean	Stdev	N		Aug-2001	Max	Min	Mean	Stdev	N		Sep-2001	Max	Min	Mean	Stdev	N	
Max	22.91	19.30	20.85	1.69	96.00		Max	21.25	19.14	19.80	1.48	97.00		Max	16.90	15.80	16.30	0.92	96.00	
Min	17.86	16.58	17.38	0.21	96.00		Min	16.11	14.23	15.69	0.11	96.00		Min	13.31	12.69	12.99	0.12	95.00	
Mean	19.75	17.48	18.44	0.78	96.00		Mean	18.15	16.32	17.23	0.59	96.03		Mean	15.56	14.41	14.91	0.37	95.97	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments: August 21 2001 Some unknown weather effect dropped water temperature 4 C in one hour

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 38.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304988

Temperature Correction Factor
Calibration Date 28-May-03
a= 0.107424501
b= 0.987432101

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2001	13.21	12.29	12.72	0.22	96	Calibration	11/1/2001	8.87	8.12	8.46	0.22	96		12/1/2001	5.95	5.32	5.69	0.12	96	
10/2/2001	13.05	12.29	12.67	0.20	96		11/2/2001	8.43	7.97	8.20	0.16	96		12/2/2001	5.79	5.17	5.51	0.13	96	
10/3/2001	13.05	12.29	12.62	0.22	96		11/3/2001	8.27	7.81	8.12	0.10	96		12/3/2001	5.63	5.17	5.40	0.14	96	
10/4/2001	13.05	11.82	12.33	0.44	96		11/4/2001	8.43	7.81	8.11	0.15	96		12/4/2001	5.48	5.01	5.32	0.12	96	
10/5/2001	13.51	12.13	12.70	0.40	96		11/5/2001	7.97	7.81	7.88	0.07	96		12/5/2001	5.63	4.71	5.35	0.20	96	
10/6/2001	13.51	12.44	12.88	0.40	96		11/6/2001	7.97	7.66	7.84	0.10	96		12/6/2001	5.63	4.71	5.18	0.34	96	
10/7/2001	12.74	11.36	12.20	0.34	96		11/7/2001	7.81	7.66	7.78	0.07	96		12/7/2001	5.63	4.71	5.26	0.18	96	
10/8/2001	11.66	10.90	11.41	0.15	96		11/8/2001	7.81	7.51	7.72	0.11	96		12/8/2001	5.63	5.01	5.44	0.24	96	
10/9/2001	11.97	11.20	11.53	0.22	96		11/9/2001	7.81	7.51	7.70	0.09	96		12/9/2001	5.63	4.87	5.37	0.20	96	
10/10/2001	11.51	11.05	11.26	0.13	96		11/10/2001	7.81	7.51	7.66	0.11	96		12/10/2001	5.48	4.87	5.30	0.11	96	
10/11/2001	11.66	11.36	11.50	0.12	96		11/11/2001	7.81	7.66	7.73	0.09	96		12/11/2001	5.48	4.87	5.18	0.15	96	
10/12/2001	11.51	10.59	10.95	0.20	96		11/12/2001	8.12	7.81	7.94	0.13	96		12/12/2001	5.17	4.40	4.97	0.23	96	
10/13/2001	10.90	10.59	10.84	0.11	96		11/13/2001	8.12	7.81	7.97	0.09	96		12/13/2001	5.32	4.87	5.16	0.14	96	
10/14/2001	10.90	10.27	10.52	0.15	96		11/14/2001	7.97	7.81	7.91	0.06	96		12/14/2001	5.17	4.09	4.93	0.20	96	
10/15/2001	10.90	10.43	10.63	0.11	96		11/15/2001	8.27	7.97	8.13	0.11	96		12/15/2001	4.87	4.24	4.66	0.14	96	
10/16/2001	10.90	10.27	10.56	0.16	96		11/16/2001	7.97	7.51	7.84	0.15	96		12/16/2001	5.17	4.71	4.98	0.08	96	
10/17/2001	10.59	10.27	10.39	0.12	96		11/17/2001	7.51	7.04	7.28	0.10	96		12/17/2001	5.01	4.71	4.81	0.08	96	
10/18/2001	10.27	9.80	10.04	0.11	96		11/18/2001	7.35	6.88	7.16	0.12	96		12/18/2001	4.87	4.56	4.73	0.07	96	
10/19/2001	10.43	9.96	10.19	0.14	96		11/19/2001	7.66	7.20	7.39	0.12	96		12/19/2001	4.71	4.40	4.63	0.10	96	
10/20/2001	10.43	9.80	10.09	0.16	96		11/20/2001	7.81	7.66	7.72	0.07	96		12/20/2001	4.40	3.93	4.02	0.16	96	
10/21/2001	10.12	9.49	9.77	0.17	96		11/21/2001	7.81	7.51	7.67	0.05	96		12/21/2001	3.93	3.78	3.83	0.07	96	
10/22/2001	9.65	9.19	9.51	0.14	96		11/22/2001	7.66	7.35	7.56	0.10	96		12/22/2001	3.93	3.62	3.81	0.11	96	
10/23/2001	9.65	9.19	9.42	0.10	96		11/23/2001	7.66	7.35	7.47	0.10	96		12/23/2001	4.24	3.78	3.94	0.16	96	
10/24/2001	9.34	8.87	9.20	0.15	96		11/24/2001	7.35	6.88	7.12	0.15	96		12/24/2001	4.56	4.09	4.29	0.16	96	
10/25/2001	9.34	9.03	9.12	0.08	96		11/25/2001	7.35	6.88	7.07	0.16	96		12/25/2001	4.09	3.62	3.93	0.17	96	
10/26/2001	9.19	8.56	8.97	0.17	96		11/26/2001	7.04	6.57	6.81	0.10	96		12/26/2001	3.78	3.31	3.54	0.15	96	
10/27/2001	9.03	8.87	8.98	0.08	96		11/27/2001	6.88	6.42	6.62	0.10	96		12/27/2001	3.93	3.62	3.81	0.09	96	
10/28/2001	8.87	8.56	8.79	0.08	100	Standard	11/28/2001	6.57	6.10	6.38	0.14	96		12/28/2001	4.40	3.93	4.15	0.15	96	
10/29/2001	8.87	8.27	8.63	0.22	96		11/29/2001	6.26	5.79	6.02	0.11	96		12/29/2001	4.40	4.09	4.26	0.09	96	
10/30/2001	8.73	8.12	8.46	0.16	96		11/30/2001	5.95	5.63	5.81	0.12	96		12/30/2001	4.24	3.62	3.92	0.19	96	
10/31/2001	8.87	8.27	8.60	0.27	96									12/31/2001	3.78	2.47	3.68	0.11	96	
Oct-2001	Max	Min	Mean	Stdev	N		Nov-2001	Max	Min	Mean	Stdev	N		Dec-2001	Max	Min	Mean	Stdev	N	
Max	13.51	12.44	12.88	0.44	100.00		Max	8.87	8.12	8.46	0.22	96.00		Max	5.95	5.32	5.69	0.34	96.00	
Min	8.73	8.12	8.46	0.08	96.00		Min	5.95	5.63	5.81	0.05	96.00		Min	3.78	3.31	3.54	0.07	96.00	
Mean	10.69	10.24	10.56	0.19	96.13		Mean	7.67	7.31	7.50	0.11	96.00		Mean	4.90	4.36	4.68	0.15	96.00	
N	31	31	31	31	31		N	30	30	30	30	30		N	31	31	31	31	31	

Comments: October 1 2001 Change Calibration Curve
October 28 2001 Change to Standard Time

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304568

Temperature Correction Factor
Calibration Date 29-May-03
a= 0.107424501
b= 0.997432191

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2002	3.93	3.78	3.86	0.07	96		2/1/2002	3.31	2.99	3.12	0.07	96		3/1/2002	4.40	3.47	3.91	0.28	96	
1/2/2002	4.71	3.93	4.34	0.33	96		2/2/2002	3.62	3.15	3.46	0.14	96		3/2/2002	4.56	3.62	3.95	0.26	96	
1/3/2002	4.71	4.56	4.59	0.06	96		2/3/2002	3.78	3.47	3.62	0.14	96		3/3/2002	4.71	3.78	4.13	0.27	96	
1/4/2002	4.56	4.40	4.52	0.07	96		2/4/2002	3.93	3.47	3.72	0.13	96		3/4/2002	4.56	3.93	4.11	0.21	96	
1/5/2002	4.71	4.40	4.50	0.11	96		2/5/2002	3.93	3.62	3.83	0.08	96		3/5/2002	4.24	3.31	3.77	0.24	96	
1/6/2002	5.01	4.71	4.80	0.10	96		2/6/2002	3.93	3.62	3.75	0.09	96		3/6/2002	3.93	2.67	3.26	0.35	96	
1/7/2002	5.17	4.87	4.93	0.11	96		2/7/2002	3.78	3.47	3.68	0.12	96		3/7/2002	3.62	2.19	2.93	0.46	96	
1/8/2002	5.01	4.71	4.86	0.07	96		2/8/2002	4.24	3.62	3.84	0.22	96		3/8/2002	3.93	2.99	3.37	0.36	96	
1/9/2002	5.01	4.87	4.91	0.07	96		2/9/2002	4.24	3.78	3.97	0.11	96		3/9/2002	3.47	3.15	3.30	0.14	96	
1/10/2002	5.01	4.87	4.90	0.06	96		2/10/2002	3.93	3.78	3.88	0.07	96		3/10/2002	3.47	3.15	3.28	0.10	96	
1/11/2002	5.01	4.71	4.86	0.11	96		2/11/2002	4.09	3.62	3.76	0.16	96		3/11/2002	3.93	2.83	3.42	0.38	96	
1/12/2002	5.01	4.71	4.93	0.08	96		2/12/2002	4.09	3.31	3.69	0.28	96		3/12/2002	3.78	3.47	3.69	0.09	96	
1/13/2002	4.71	4.40	4.62	0.08	96		2/13/2002	4.24	3.78	3.98	0.18	96		3/13/2002	4.40	3.47	3.91	0.31	96	
1/14/2002	4.56	4.24	4.38	0.08	96		2/14/2002	4.09	3.47	3.85	0.18	96		3/14/2002	4.87	3.62	4.14	0.37	96	
1/15/2002	4.71	4.24	4.45	0.14	96		2/15/2002	4.09	3.62	3.79	0.14	96		3/15/2002	4.71	3.47	4.16	0.41	96	
1/16/2002	4.71	4.40	4.54	0.11	96		2/16/2002	3.93	3.47	3.77	0.15	96		3/16/2002	4.40	3.31	3.81	0.36	96	
1/17/2002	4.40	3.93	4.18	0.09	96		2/17/2002	4.09	3.93	4.00	0.08	96		3/17/2002	4.09	2.83	3.49	0.40	96	
1/18/2002	4.40	3.93	4.18	0.12	96		2/18/2002	4.09	3.78	3.93	0.13	96		3/18/2002	3.62	3.15	3.35	0.15	96	
1/19/2002	4.24	3.62	4.04	0.15	96		2/19/2002	4.40	3.93	4.17	0.12	96		3/19/2002	4.40	2.99	3.68	0.53	96	
1/20/2002	4.09	3.47	3.79	0.21	96		2/20/2002	4.56	3.93	4.16	0.19	96		3/20/2002	4.40	3.15	3.74	0.43	96	
1/21/2002	4.09	3.93	4.01	0.08	96		2/21/2002	4.09	3.78	4.03	0.10	96		3/21/2002	4.09	3.15	3.58	0.29	96	
1/22/2002	4.09	3.47	3.78	0.18	96		2/22/2002	4.40	3.78	4.05	0.20	96		3/22/2002	4.87	3.62	4.19	0.47	96	
1/23/2002	3.62	2.52	3.28	0.35	96		2/23/2002	3.93	3.31	3.65	0.17	96		3/23/2002	5.32	4.24	4.62	0.41	96	
1/24/2002	3.62	3.31	3.51	0.12	96		2/24/2002	3.62	2.99	3.31	0.16	96		3/24/2002	5.48	3.93	4.57	0.55	96	
1/25/2002	3.93	3.47	3.73	0.12	96		2/25/2002	4.24	3.31	3.68	0.33	96		3/25/2002	5.63	4.09	4.88	0.57	96	
1/26/2002	3.62	3.15	3.39	0.11	96		2/26/2002	3.93	3.31	3.60	0.21	96		3/26/2002	5.63	4.40	4.98	0.37	96	
1/27/2002	3.31	2.99	3.21	0.08	96		2/27/2002	4.09	3.31	3.70	0.25	96		3/27/2002	4.56	4.24	4.36	0.10	96	
1/28/2002	3.31	2.99	3.12	0.09	96		2/28/2002	4.24	3.31	3.73	0.29	96		3/28/2002	5.63	4.09	4.69	0.49	96	
1/29/2002	3.47	2.99	3.16	0.19	96									3/29/2002	5.32	4.24	4.79	0.42	96	
1/30/2002	3.31	2.83	3.12	0.12	96									3/30/2002	6.10	4.87	5.37	0.46	96	
1/31/2002	3.31	3.15	3.26	0.08	96									3/31/2002	5.63	4.87	5.26	0.24	96	
Jan-2002	Max	Min	Mean	Stdev	N		Feb-2002	Max	Min	Mean	Stdev	N		Mar-2002	Max	Min	Mean	Stdev	N	
Max	5.17	4.87	4.93	0.35	96.00		Max	4.56	3.93	4.17	0.33	96.00		Max	6.10	4.87	5.37	0.57	96.00	
Min	3.31	2.52	3.12	0.06	96.00		Min	3.31	2.99	3.12	0.07	96.00		Min	3.47	2.19	2.93	0.09	96.00	
Mean	4.30	3.92	4.12	0.12	96.00		Mean	4.03	3.53	3.77	0.16	96.00		Mean	4.57	3.56	4.02	0.34	96.00	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304568

Temperature Correction Factor
Calibration Date 29-May-03
a= 0.107424501
b= 0.997432191

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/2002	5.63	4.24	4.93	0.37	96		5/1/2002	14.60	10.59	12.31	1.22	96		6/1/2002	13.82	12.13	12.75	0.54	96	
4/2/2002	6.73	4.24	5.12	0.82	96		5/2/2002	13.05	10.43	11.67	0.85	96		6/2/2002	14.60	12.13	13.40	0.92	96	
4/3/2002	7.66	5.01	6.12	0.81	96		5/3/2002	12.74	9.96	11.28	0.89	96		6/3/2002	15.70	13.98	14.84	0.66	96	
4/4/2002	8.27	4.87	6.49	1.40	96		5/4/2002	11.20	10.43	10.77	0.27	96		6/4/2002	15.55	14.75	15.22	0.18	96	
4/5/2002	7.66	6.26	6.94	0.35	96		5/5/2002	12.13	10.27	10.91	0.56	96		6/5/2002	14.91	13.51	14.32	0.36	96	
4/6/2002	6.26	5.48	5.96	0.22	96		5/6/2002	12.90	9.80	10.99	1.00	96		6/6/2002	14.75	13.67	14.15	0.34	96	
4/7/2002	6.26	5.01	5.44	0.38	92	Daylight	5/7/2002	12.29	9.80	10.91	0.82	96		6/7/2002	15.07	13.51	14.17	0.43	96	
4/8/2002	7.20	5.01	6.14	0.76	96		5/8/2002	12.13	10.43	11.33	0.66	96		6/8/2002	14.13	13.21	13.72	0.25	96	
4/9/2002	7.20	6.57	6.83	0.23	96		5/9/2002	13.51	11.05	12.14	0.83	96		6/9/2002	15.70	13.05	14.35	1.01	96	
4/10/2002	7.35	6.42	6.71	0.29	96		5/10/2002	13.51	10.74	11.74	0.95	96		6/10/2002	15.86	14.13	14.96	0.61	96	
4/11/2002	6.57	6.42	6.56	0.04	96		5/11/2002	13.98	10.90	12.12	1.06	96		6/11/2002	16.18	14.13	15.02	0.73	96	
4/12/2002	6.42	6.10	6.31	0.09	96		5/12/2002	16.64	11.66	13.81	1.83	96		6/12/2002	17.44	14.75	16.09	1.09	96	
4/13/2002	6.26	5.79	6.08	0.16	96		5/13/2002	14.60	13.05	13.89	0.42	96		6/13/2002	20.34	15.39	17.59	1.73	96	
4/14/2002	6.26	5.63	5.95	0.18	96		5/14/2002	14.29	12.44	13.17	0.43	96		6/14/2002	22.82	18.08	20.39	1.60	96	
4/15/2002	6.57	5.63	6.05	0.27	96		5/15/2002	14.29	11.97	13.16	0.82	96		6/15/2002	20.34	17.12	18.86	0.81	96	
4/16/2002	6.88	5.63	6.22	0.37	96		5/16/2002	13.98	12.29	13.07	0.62	96		6/16/2002	18.89	17.44	18.12	0.50	96	
4/17/2002	7.35	5.32	6.41	0.54	96		5/17/2002	13.51	11.97	12.66	0.52	96		6/17/2002	18.24	17.60	17.97	0.17	96	
4/18/2002	6.73	5.32	6.07	1.05	96		5/18/2002	15.70	11.97	13.59	1.40	96		6/18/2002	18.57	16.98	17.59	0.51	96	
4/19/2002	7.66	5.95	6.56	0.53	96		5/19/2002	15.70	13.05	14.38	0.92	96		6/19/2002	18.89	16.80	17.57	0.70	96	
4/20/2002	7.51	6.26	6.82	0.52	96		5/20/2002	15.23	13.98	14.57	0.26	96		6/20/2002	19.21	16.80	17.78	0.86	96	
4/21/2002	8.73	6.26	7.56	0.80	96		5/21/2002	15.23	13.51	14.34	0.47	96		6/21/2002	19.86	16.80	18.23	1.12	96	
4/22/2002	8.87	7.20	7.80	0.52	96		5/22/2002	13.98	12.44	13.06	0.46	96		6/22/2002	20.49	17.44	18.92	1.21	96	
4/23/2002	8.73	6.73	7.51	0.59	96		5/23/2002	14.13	12.44	13.16	0.67	96		6/23/2002	19.86	19.05	19.35	0.16	96	
4/24/2002	9.19	7.04	8.03	0.79	96		5/24/2002	14.29	12.60	13.56	0.57	96		6/24/2002	19.21	18.40	18.81	0.27	96	
4/25/2002	9.65	7.51	8.46	0.55	96		5/25/2002	14.75	13.51	14.10	0.41	96		6/25/2002	18.57	18.08	18.25	0.13	96	
4/26/2002	10.12	7.51	8.74	0.94	96		5/26/2002	14.60	13.98	14.28	0.23	96		6/26/2002	18.08	17.44	17.80	0.15	96	
4/27/2002	11.82	8.58	9.66	1.03	96		5/27/2002	14.29	13.82	14.00	0.13	96		6/27/2002	17.44	16.49	17.00	0.29	96	
4/28/2002	12.90	8.87	10.53	1.35	96		5/28/2002	13.82	12.90	13.51	0.26	96		6/28/2002	17.12	16.18	16.55	0.21	96	
4/29/2002	11.51	8.43	10.44	0.98	96		5/29/2002	14.13	12.90	13.36	0.47	96		6/29/2002	17.28	15.55	16.32	0.67	96	
4/30/2002	12.29	8.58	10.43	1.42	96		5/30/2002	14.13	13.21	13.63	0.33	96		6/30/2002	17.44	16.34	16.64	0.34	96	
							5/31/2002	14.60	12.90	13.67	0.50	96								
Apr-2002	Max	Min	Mean	Stdev	N		May-2002	Max	Min	Mean	Stdev	N		Jun-2002	Max	Min	Mean	Stdev	N	
Max	12.90	8.87	10.53	1.42	96.00		Max	16.64	13.98	14.57	1.83	96.00		Max	22.82	19.05	20.39	1.73	96.00	
Min	5.63	4.24	4.93	0.04	92.00		Min	11.20	9.80	10.77	0.13	96.00		Min	13.82	12.13	12.75	0.13	96.00	
Mean	8.15	6.26	7.12	0.61	95.87		Mean	14.00	11.97	12.87	0.67	96.00		Mean	17.54	15.70	16.56	0.62	96.00	
N	30	30	30	30	30		N	31	31	31	31	31		N	30	30	30	30	30	

Comments: April 7 2002 Change to Daylight Saving Time

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
304568

Temperature Correction Factor
Calibration Date 29-May-03
a= 0.107424501
b= 0.997432191

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2002	17.28	15.86	16.50	0.50	96		8/1/2002	19.86	17.92	18.43	0.44	96		9/1/2002	18.40	17.28	17.71	0.36	96	
7/2/2002	19.05	15.55	17.05	1.26	96		8/2/2002	19.37	17.76	18.52	0.58	96		9/2/2002	18.40	15.86	17.06	0.69	96	
7/3/2002	17.12	15.86	16.50	0.43	96		8/3/2002	20.34	17.60	18.86	0.96	96		9/3/2002	16.49	14.75	15.54	0.52	96	
7/4/2002	16.80	16.18	16.51	0.24	96		8/4/2002	19.37	17.76	18.22	0.42	96		9/4/2002	18.08	15.55	16.74	0.90	96	
7/5/2002	19.21	15.86	17.44	1.34	96		8/5/2002	19.37	17.28	18.31	0.79	96		9/5/2002	17.76	15.55	16.68	0.67	96	
7/6/2002	18.73	16.96	17.82	0.51	96		8/6/2002	19.69	18.08	18.76	0.57	96		9/6/2002	18.40	16.64	17.41	0.51	96	
7/7/2002	18.40	16.34	17.20	0.79	96		8/7/2002	20.34	17.76	19.07	0.89	96		9/7/2002	17.44	15.86	16.70	0.57	96	
7/8/2002	18.40	16.96	17.55	0.44	96		8/8/2002	20.02	18.89	19.56	0.36	96		9/8/2002	17.28	15.70	16.54	0.42	96	
7/9/2002	19.37	17.12	18.11	0.86	96		8/9/2002	20.49	19.21	19.75	0.47	96		9/9/2002	15.86	14.60	15.25	0.30	96	
7/10/2002	20.02	16.80	18.68	0.80	96		8/10/2002	20.02	18.40	19.24	0.54	96		9/10/2002	16.64	14.44	15.74	0.72	96	
7/11/2002	18.40	16.64	17.32	0.65	96		8/11/2002	20.02	17.92	18.99	0.74	96		9/11/2002	17.12	16.34	16.63	0.24	96	
7/12/2002	19.69	16.96	18.17	1.03	96		8/12/2002	20.34	17.44	18.95	1.00	96		9/12/2002	19.53	16.34	17.47	1.09	96	
7/13/2002	19.05	17.28	17.84	0.58	96		8/13/2002	20.99	17.92	19.46	1.06	94		9/13/2002	19.05	17.44	18.19	0.47	96	
7/14/2002	19.05	17.12	17.87	0.65	96		8/14/2002	20.18	18.40	18.97	0.48	96		9/14/2002	18.40	17.12	17.64	0.37	96	
7/15/2002	18.89	17.44	18.05	0.53	96		8/15/2002	18.40	17.28	17.84	0.41	96		9/15/2002	18.08	16.80	17.67	0.32	96	
7/16/2002	20.18	17.92	18.92	0.94	96		8/16/2002	20.34	16.96	18.50	1.21	96		9/16/2002	16.96	15.70	16.49	0.38	96	
7/17/2002	19.86	18.89	19.12	0.24	96		8/17/2002	19.53	16.96	18.34	0.94	96		9/17/2002	16.80	15.70	16.32	0.31	96	
7/18/2002	19.21	18.24	18.66	0.28	96		8/18/2002	18.89	17.28	17.98	0.43	96		9/18/2002	16.02	15.55	15.93	0.13	95	
7/19/2002	19.53	17.92	18.53	0.53	96		8/19/2002	18.73	16.96	17.74	0.65	96		9/19/2002	15.86	15.07	15.46	0.16	96	
7/20/2002	19.69	17.60	18.39	0.72	96		8/20/2002	18.89	16.96	17.83	0.71	96		9/20/2002	15.55	14.75	15.05	0.22	96	
7/21/2002	19.69	16.96	18.20	0.95	96		8/21/2002	19.53	16.96	18.14	0.94	96		9/21/2002	15.86	14.29	15.07	0.54	96	
7/22/2002	20.66	17.28	18.84	1.21	96		8/22/2002	20.18	16.80	18.54	1.18	96		9/22/2002	15.86	14.75	15.16	0.32	96	
7/23/2002	21.15	17.92	19.43	1.14	96		8/23/2002	20.99	17.76	19.36	1.12	96		9/23/2002	15.39	14.75	14.92	0.21	96	
7/24/2002	21.48	18.24	19.67	1.12	96		8/24/2002	20.66	18.08	19.39	0.93	96		9/24/2002	15.70	14.60	14.93	0.33	96	
7/25/2002	21.65	19.05	20.14	0.99	96		8/25/2002	20.18	18.40	19.33	0.65	96		9/25/2002	15.55	14.60	14.93	0.31	96	
7/26/2002	20.99	18.89	19.97	0.75	96		8/26/2002	21.48	18.40	19.86	1.04	96		9/26/2002	15.23	14.44	14.74	0.24	96	
7/27/2002	21.15	18.57	19.81	0.91	96		8/27/2002	22.15	18.89	20.56	1.09	96		9/27/2002	15.23	14.29	14.66	0.34	96	
7/28/2002	20.34	19.05	19.58	0.35	96		8/28/2002	21.48	19.69	20.66	0.56	96		9/28/2002	14.75	14.44	14.64	0.08	96	
7/29/2002	20.34	18.24	19.26	0.69	96		8/29/2002	20.82	18.08	19.09	0.81	96		9/29/2002	14.75	13.98	14.36	0.28	96	
7/30/2002	20.34	18.08	19.22	0.87	96		8/30/2002	18.08	17.44	17.71	0.18	96		9/30/2002	14.44	13.51	13.96	0.26	96	
7/31/2002	20.66	18.08	19.42	0.93	96		8/31/2002	17.76	16.80	17.34	0.33	96								
Jul-2002	Max	Min	Mean	Stdev	N		Aug-2002	Max	Min	Mean	Stdev	N		Sep-2002	Max	Min	Mean	Stdev	N	
Max	21.65	19.05	20.14	1.34	96.00		Max	22.15	19.69	20.86	1.21	96.00		Max	19.53	17.44	18.19	1.09	96.00	
Min	16.80	15.55	16.50	0.24	96.00		Min	17.76	16.80	17.34	0.18	94.00		Min	14.44	13.51	13.96	0.08	95.00	
Mean	19.56	17.42	18.38	0.75	96.00		Mean	19.95	17.81	18.62	0.73	95.94		Mean	16.70	15.36	15.99	0.41	95.97	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Correction Factor

Temperature Logger	Calibration Date	29-May-03	Temperature Logger	Calibration Date	9-Oct-02
Onset Tidbit	a=	0.107424501	Onset Tidbit	a=	0.051246269
304568	b=	0.997432191	378634	b=	0.997447686

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2002	14.29	12.90	13.59	0.53	96		11/1/2002	8.73	8.58	8.68	0.07	96		12/1/2002	6.99	6.22	6.52	0.14	96	
10/2/2002	14.13	13.21	13.68	0.27	96		11/2/2002	8.58	8.12	8.26	0.12	96		12/2/2002	7.30	6.83	7.07	0.12	96	
10/3/2002	13.67	13.05	13.31	0.19	96		11/3/2002	8.27	7.81	8.03	0.11	96		12/3/2002	7.15	6.83	6.98	0.11	96	
10/4/2002	13.51	13.05	13.29	0.16	96		11/4/2002	8.12	7.51	7.88	0.23	96		12/4/2002	6.99	6.83	6.90	0.08	96	
10/5/2002	13.67	13.05	13.35	0.25	96		11/5/2002	8.58	7.97	8.18	0.19	96		12/5/2002	7.15	6.68	6.95	0.11	96	
10/6/2002	14.13	13.51	13.82	0.25	96		11/6/2002	9.34	8.58	9.01	0.26	96		12/6/2002	6.83	6.22	6.48	0.17	96	
10/7/2002	14.29	13.67	13.97	0.18	96		11/7/2002	9.19	9.03	9.16	0.08	96		12/7/2002	6.52	5.91	6.09	0.16	96	
10/8/2002	13.67	13.36	13.55	0.13	96		11/8/2002	9.03	8.73	8.93	0.11	96		12/8/2002	5.91	5.60	5.73	0.10	96	
10/9/2002	13.82	13.05	13.43	0.20	96		11/9/2002	8.87	8.87	8.87	0.00	96		12/9/2002	6.52	5.76	6.08	0.26	96	
10/10/2002	13.67	12.74	13.21	0.26	96		11/10/2002	8.87	8.58	8.80	0.08	96		12/10/2002	6.68	6.37	6.50	0.11	96	
10/11/2002	12.90	12.29	12.63	0.22	96		11/11/2002	8.73	8.58	8.72	0.04	96		12/11/2002	6.37	6.07	6.20	0.11	96	
10/12/2002	12.90	11.82	12.24	0.38	96		11/12/2002	8.73	8.43	8.56	0.07	96		12/12/2002	7.15	6.22	6.69	0.29	96	
10/13/2002	12.74	11.82	12.27	0.28	96		11/13/2002	8.73	8.43	8.61	0.06	96		12/13/2002	6.68	6.52	6.63	0.08	96	
10/14/2002	12.44	11.66	12.02	0.29	96		11/14/2002	8.58	8.43	8.48	0.07	96		12/14/2002	6.52	6.37	6.50	0.05	96	
10/15/2002	12.29	11.66	12.03	0.23	96		11/15/2002	8.43	8.27	8.32	0.07	96		12/15/2002	6.68	6.52	6.53	0.04	96	
10/16/2002	12.74	11.66	12.21	0.30	96		11/16/2002	8.27	8.12	8.17	0.07	96		12/16/2002	6.52	6.37	6.50	0.05	96	
10/17/2002	12.74	12.13	12.35	0.19	96		11/17/2002	8.12	8.12	8.12	0.00	96		12/17/2002	6.37	6.22	6.29	0.08	96	
10/18/2002	12.90	11.82	12.34	0.38	96		11/18/2002	8.12	7.97	8.10	0.05	96		12/18/2002	6.37	6.07	6.21	0.09	96	
10/19/2002	12.60	12.13	12.43	0.17	96		11/19/2002	8.27	7.97	8.14	0.07	96		12/19/2002	6.07	5.91	6.01	0.08	96	
10/20/2002	12.74	12.13	12.41	0.25	96		11/20/2002	8.43	8.27	8.31	0.07	96		12/20/2002	6.07	5.76	5.93	0.08	96	
10/21/2002	12.74	12.29	12.54	0.15	96		11/21/2002	8.43	8.22	8.32	0.05	95	Change	12/21/2002	5.76	5.60	5.63	0.07	96	
10/22/2002	12.29	11.66	11.97	0.13	96		11/22/2002	8.38	7.92	8.20	0.13	96		12/22/2002	5.91	4.98	5.61	0.23	96	
10/23/2002	11.66	11.20	11.43	0.14	96		11/23/2002	7.92	7.45	7.70	0.13	96		12/23/2002	5.91	5.44	5.74	0.15	96	
10/24/2002	11.20	10.74	11.02	0.12	96		11/24/2002	7.45	6.99	7.26	0.17	96		12/24/2002	5.76	5.44	5.60	0.10	96	
10/25/2002	11.05	10.43	10.78	0.17	96		11/25/2002	7.15	6.68	6.95	0.17	96		12/25/2002	5.76	4.51	5.32	0.38	96	
10/26/2002	11.20	10.59	11.01	0.14	96		11/26/2002	7.15	6.83	6.97	0.11	96		12/26/2002	5.76	5.29	5.48	0.16	96	
10/27/2002	10.59	10.27	10.42	0.13	100	Standard	11/27/2002	6.83	6.52	6.70	0.09	96		12/27/2002	5.60	5.13	5.36	0.12	96	
10/28/2002	11.20	10.59	10.81	0.22	96		11/28/2002	7.61	6.83	7.28	0.27	96		12/28/2002	5.29	4.67	4.90	0.14	96	
10/29/2002	10.59	9.49	9.77	0.30	96		11/29/2002	7.30	7.15	7.24	0.07	96		12/29/2002	4.67	4.04	4.45	0.21	96	
10/30/2002	9.49	8.87	9.17	0.13	96		11/30/2002	7.15	6.68	6.77	0.16	96		12/30/2002	5.13	4.35	4.84	0.29	96	
10/31/2002	8.87	8.58	8.75	0.10	96									12/31/2002	4.98	4.35	4.79	0.16	96	
Oct-2002	Max	Min	Mean	Stdev	N		Nov-2002	Max	Min	Mean	Stdev	N		Dec-2002	Max	Min	Mean	Stdev	N	
Max	14.29	13.67	13.97	0.53	100.00		Max	9.34	9.03	9.16	0.27	96.00		Max	7.30	6.83	7.07	0.38	96.00	
Min	8.87	8.58	8.75	0.10	96.00		Min	6.83	6.52	6.70	0.00	95.00		Min	4.67	4.04	4.45	0.04	96.00	
Mean	12.48	11.79	12.12	0.22	96.13		Mean	8.24	7.92	8.09	0.11	95.97		Mean	6.24	5.78	6.02	0.14	96.00	
N	31	31	31	31	31		N	30	30	30	30	38		N	31	31	31	31	31	

Comments: October 27 2002 Change to Standard Time
November21 2002 Change to Onset Tidbit 378634

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
378634

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.051246269
b= 0.997447686

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2003	5.13	4.67	5.04	0.14	96		2/1/2003	5.60	5.29	5.41	0.11	96		3/1/2003	6.22	4.82	5.43	0.48	96	
1/2/2003	5.44	4.82	5.10	0.19	96		2/2/2003	5.44	5.29	5.36	0.08	96		3/2/2003	6.83	5.91	6.35	0.27	96	
1/3/2003	5.44	5.29	5.35	0.07	96		2/3/2003	5.44	4.98	5.25	0.15	96		3/3/2003	6.37	5.13	5.81	0.34	96	
1/4/2003	5.60	5.29	5.42	0.08	96		2/4/2003	5.13	4.82	4.90	0.08	96		3/4/2003	6.37	5.13	5.66	0.52	96	
1/5/2003	5.44	5.29	5.37	0.08	96		2/5/2003	4.98	4.67	4.86	0.09	96		3/5/2003	6.37	5.60	5.96	0.20	96	
1/6/2003	5.44	5.13	5.27	0.09	96		2/6/2003	4.67	4.35	4.54	0.11	96		3/6/2003	5.76	4.19	4.87	0.41	96	
1/7/2003	5.44	5.13	5.30	0.13	96		2/7/2003	4.98	4.51	4.67	0.14	96		3/7/2003	4.51	3.42	4.14	0.37	96	
1/8/2003	5.29	4.82	5.02	0.17	96		2/8/2003	4.98	4.67	4.74	0.11	96		3/8/2003	4.51	3.58	4.10	0.32	96	
1/9/2003	4.82	4.51	4.54	0.07	96		2/9/2003	5.29	4.82	5.01	0.18	96		3/9/2003	4.19	2.94	3.52	0.31	96	
1/10/2003	4.51	4.04	4.18	0.12	96		2/10/2003	5.44	4.82	5.07	0.18	96		3/10/2003	4.82	3.73	4.29	0.39	96	
1/11/2003	4.35	3.73	4.11	0.16	96		2/11/2003	5.13	4.51	4.95	0.15	96		3/11/2003	4.82	4.19	4.58	0.21	96	
1/12/2003	4.67	4.19	4.51	0.14	96		2/12/2003	4.82	4.04	4.40	0.20	96		3/12/2003	4.82	4.35	4.65	0.13	96	
1/13/2003	4.67	4.51	4.56	0.07	96		2/13/2003	4.51	3.89	4.19	0.22	96		3/13/2003	5.13	4.35	4.81	0.19	96	
1/14/2003	4.82	4.35	4.60	0.18	96		2/14/2003	5.44	4.35	4.89	0.47	96		3/14/2003	5.13	4.98	5.09	0.07	96	
1/15/2003	4.67	4.19	4.58	0.14	96		2/15/2003	5.44	5.29	5.36	0.08	96		3/15/2003	5.29	4.98	5.16	0.10	96	
1/16/2003	4.82	4.51	4.69	0.11	96		2/16/2003	5.76	5.13	5.43	0.22	96		3/16/2003	5.29	4.98	5.12	0.10	96	
1/17/2003	4.67	4.35	4.57	0.10	96		2/17/2003	5.76	4.98	5.18	0.21	96		3/17/2003	5.44	4.98	5.13	0.15	96	
1/18/2003	4.35	3.89	4.05	0.14	96		2/18/2003	5.13	4.67	4.92	0.18	96		3/18/2003	5.44	4.98	5.19	0.18	96	
1/19/2003	4.82	3.58	4.35	0.37	96		2/19/2003	5.44	4.98	5.20	0.13	96		3/19/2003	5.29	4.98	5.18	0.09	96	
1/20/2003	5.13	4.67	4.85	0.18	96		2/20/2003	5.44	4.98	5.24	0.18	96		3/20/2003	5.44	5.13	5.28	0.14	96	
1/21/2003	4.98	4.67	4.83	0.10	96		2/21/2003	5.76	5.13	5.44	0.22	96		3/21/2003	5.44	5.13	5.22	0.11	96	
1/22/2003	4.82	3.58	4.13	0.44	96		2/22/2003	5.60	4.82	5.24	0.21	96		3/22/2003	5.76	5.13	5.39	0.22	96	
1/23/2003	4.98	3.58	4.32	0.45	96		2/23/2003	4.98	4.35	4.62	0.19	96		3/23/2003	5.76	5.29	5.46	0.16	96	
1/24/2003	5.13	4.82	5.01	0.13	96		2/24/2003	4.82	4.04	4.38	0.24	96		3/24/2003	5.76	4.98	5.30	0.26	96	
1/25/2003	5.29	4.98	5.19	0.10	96		2/25/2003	5.44	4.19	4.80	0.39	96		3/25/2003	5.91	5.13	5.48	0.32	96	
1/26/2003	5.60	5.13	5.29	0.14	96		2/26/2003	5.29	4.51	4.98	0.21	96		3/26/2003	6.83	5.29	5.93	0.49	96	
1/27/2003	5.29	4.98	5.11	0.06	96		2/27/2003	5.60	4.19	4.86	0.54	96		3/27/2003	6.83	6.07	6.43	0.20	96	
1/28/2003	5.13	4.98	5.06	0.08	96		2/28/2003	6.07	5.13	5.47	0.23	96		3/28/2003	6.83	6.07	6.44	0.22	96	
1/29/2003	5.13	4.98	4.99	0.04	96									3/29/2003	6.37	5.91	6.03	0.13	96	
1/30/2003	5.13	4.98	5.06	0.08	96									3/30/2003	6.37	5.91	6.07	0.17	96	
1/31/2003	5.60	5.13	5.35	0.16	96									3/31/2003	6.52	5.91	6.15	0.17	96	
Jan-2003	Max	Min	Mean	Stdev	N		Feb-2003	Max	Min	Mean	Stdev	N		Mar-2003	Max	Min	Mean	Stdev	N	
Max	5.60	5.29	5.42	0.45	96.00		Max	6.07	5.29	5.47	0.54	96.00		Max	6.83	6.07	6.44	0.52	96.00	
Min	4.35	3.58	4.05	0.04	96.00		Min	4.51	3.89	4.19	0.08	96.00		Min	4.19	2.94	3.52	0.07	96.00	
Mean	5.05	4.61	4.83	0.15	96.00		Mean	5.30	4.69	4.97	0.20	96.00		Mean	5.69	4.94	5.30	0.24	96.00	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 36.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
378634

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.051246269
b= 0.997447686

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/2003	6.37	5.60	5.92	0.27	96		5/1/2003	11.76	8.99	9.99	0.67	96		6/1/2003	15.65	14.39	15.04	0.29	96	
4/2/2003	7.45	5.76	6.40	0.61	96		5/2/2003	10.38	8.84	9.65	0.56	96		6/2/2003	15.97	13.62	14.61	0.72	96	
4/3/2003	7.15	6.37	6.72	0.30	96		5/3/2003	12.08	10.38	11.13	0.58	96		6/3/2003	15.34	13.01	14.25	0.63	96	
4/4/2003	7.61	6.37	6.95	0.39	96		5/4/2003	11.76	10.54	10.95	0.32	96		6/4/2003	16.28	13.62	14.80	1.00	96	
4/5/2003	7.30	6.68	6.92	0.14	96		5/5/2003	12.23	9.45	10.85	0.77	96		6/5/2003	18.83	14.54	16.34	1.58	96	
4/6/2003	7.30	6.37	6.80	0.27	92	Daylight	5/6/2003	12.70	10.07	11.23	0.74	96		6/6/2003	18.99	15.49	16.90	1.26	96	
4/7/2003	6.68	5.76	5.92	0.21	96		5/7/2003	12.23	10.54	11.30	0.60	96		6/7/2003	17.71	15.34	16.40	0.74	96	
4/8/2003	6.07	5.60	5.98	0.11	96		5/8/2003	13.32	11.15	11.96	0.62	96		6/8/2003	16.43	15.02	15.58	0.41	96	
4/9/2003	6.52	5.76	6.12	0.26	96		5/9/2003	14.23	11.15	12.35	0.96	96		6/9/2003	17.22	14.70	15.80	1.04	96	
4/10/2003	6.99	6.07	6.38	0.30	96		5/10/2003	16.75	12.08	13.70	1.51	96		6/10/2003	18.35	15.65	16.76	0.97	96	
4/11/2003	6.83	6.22	6.41	0.17	96		5/11/2003	13.92	11.45	12.43	0.82	96		6/11/2003	18.50	16.43	17.38	0.87	96	
4/12/2003	7.92	6.22	6.85	0.57	96		5/12/2003	14.08	11.92	12.80	0.64	96		6/12/2003	18.19	16.75	17.40	0.35	96	
4/13/2003	8.38	6.83	7.68	0.38	96		5/13/2003	13.32	12.54	13.08	0.24	96		6/13/2003	18.03	16.28	17.04	0.61	96	
4/14/2003	8.38	7.61	7.93	0.23	96		5/14/2003	13.47	12.23	12.74	0.40	96		6/14/2003	16.75	15.97	16.11	0.23	96	
4/15/2003	7.92	7.45	7.71	0.16	96		5/15/2003	13.01	11.76	12.38	0.35	96		6/15/2003	17.38	15.65	16.42	0.65	96	
4/16/2003	7.61	7.15	7.38	0.12	96		5/16/2003	13.01	11.61	12.23	0.34	96		6/16/2003	18.83	16.12	17.39	1.06	96	
4/17/2003	8.07	6.99	7.48	0.32	96		5/17/2003	13.47	11.61	12.36	0.64	96		6/17/2003	19.48	17.22	18.38	0.81	96	
4/18/2003	7.61	6.99	7.32	0.18	96		5/18/2003	14.08	11.76	12.88	0.93	96		6/18/2003	19.32	17.38	18.25	0.57	96	
4/19/2003	7.30	6.99	7.10	0.13	96		5/19/2003	14.86	12.70	13.71	0.82	96		6/19/2003	18.35	16.59	17.31	0.55	96	
4/20/2003	7.45	6.99	7.20	0.14	96		5/20/2003	14.39	13.47	13.93	0.22	96		6/20/2003	17.22	16.28	16.71	0.30	96	
4/21/2003	7.30	6.68	7.02	0.17	96		5/21/2003	13.77	12.39	13.28	0.30	96		6/21/2003	18.19	16.12	16.90	0.70	96	
4/22/2003	8.84	6.52	7.56	0.84	96		5/22/2003	12.39	7.92	10.41	1.42	96		6/22/2003	17.54	16.28	16.81	0.44	96	
4/23/2003	7.92	7.30	7.64	0.18	96		5/23/2003	12.54	11.76	12.24	0.14	96		6/23/2003	18.19	15.97	16.93	0.81	96	
4/24/2003	8.07	7.45	7.77	0.22	96		5/24/2003	12.23	11.76	12.10	0.13	96		6/24/2003	19.48	15.65	17.33	1.43	96	
4/25/2003	8.53	7.45	7.89	0.31	96		5/25/2003	12.39	11.61	11.86	0.24	96		6/25/2003	20.13	16.59	18.13	1.22	96	
4/26/2003	8.07	7.45	7.72	0.21	96		5/26/2003	13.47	11.30	12.36	0.81	96		6/26/2003	20.13	17.38	18.65	1.10	96	
4/27/2003	10.22	7.45	8.67	0.95	96		5/27/2003	13.32	12.85	13.06	0.11	96		6/27/2003	20.29	17.54	18.87	0.96	96	
4/28/2003	12.08	9.45	10.49	0.77	96		5/28/2003	14.39	12.54	13.33	0.62	96		6/28/2003	21.42	17.54	19.38	1.43	96	
4/29/2003	13.62	10.07	11.37	1.16	96		5/29/2003	17.07	13.01	14.73	1.59	96		6/29/2003	19.81	17.87	18.89	0.66	96	
4/30/2003	16.43	10.54	13.35	1.56	96		5/30/2003	16.12	13.47	14.42	0.67	96		6/30/2003	18.67	17.38	18.05	0.30	96	
							5/31/2003	16.12	13.47	14.94	0.87	96								
Apr-2003	Max	Min	Mean	Stdev	N		May-2003	Max	Min	Mean	Stdev	N		Jun-2003	Max	Min	Mean	Stdev	N	
Max	16.43	10.54	13.35	1.56	96.00		Max	17.07	13.47	14.94	1.59	96.00		Max	21.42	17.87	19.38	1.58	96.00	
Min	6.07	5.60	5.92	0.11	92.00		Min	10.38	7.92	9.65	0.11	96.00		Min	15.34	13.01	14.25	0.23	96.00	
Mean	8.27	7.01	7.56	0.39	95.87		Mean	13.51	11.49	12.40	0.63	96.00		Mean	18.22	15.95	16.96	0.79	96.00	
N	30	30	30	30	30		N	31	31	31	31	31		N	30	30	30	30	30	

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
378634

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.051246269
b= 0.997447686

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2003	19.81	16.91	18.26	1.11	96		8/1/2003	21.10	18.99	20.05	0.69	96		9/1/2003	18.50	16.91	17.67	0.54	96	
7/2/2003	19.48	17.71	18.63	0.58	96		8/2/2003	21.26	18.83	19.98	0.85	96		9/2/2003	18.67	16.75	17.68	0.64	96	
7/3/2003	20.29	18.19	19.12	0.72	96		8/3/2003	21.10	18.50	19.78	0.94	96		9/3/2003	18.83	17.38	18.03	0.50	96	
7/4/2003	19.16	18.19	18.65	0.31	96		8/4/2003	21.76	18.35	20.00	1.19	96		9/4/2003	19.48	17.54	18.43	0.67	96	
7/5/2003	21.10	18.35	19.47	1.04	96		8/5/2003	21.26	18.83	20.10	0.87	96		9/5/2003	19.16	18.19	18.54	0.21	96	
7/6/2003	20.45	17.54	18.86	1.05	96		8/6/2003	20.93	18.50	19.79	0.83	96		9/6/2003	18.19	17.38	17.68	0.20	96	
7/7/2003	19.81	17.87	18.78	0.69	96		8/7/2003	22.09	18.99	20.59	1.12	96		9/7/2003	17.38	16.28	16.99	0.35	96	
7/8/2003	19.32	18.03	18.76	0.45	96		8/8/2003	21.92	19.81	20.95	0.77	96		9/8/2003	18.50	16.75	17.54	0.67	96	
7/9/2003	20.93	18.35	19.60	1.06	96		8/9/2003	22.60	20.45	21.39	0.64	96		9/9/2003	19.32	17.38	18.24	0.62	96	
7/10/2003	22.42	19.16	20.61	1.12	96		8/10/2003	21.59	20.29	20.92	0.48	96		9/10/2003	18.19	17.07	17.53	0.29	96	
7/11/2003	23.10	20.29	21.48	0.83	96		8/11/2003	21.10	19.97	20.36	0.28	96		9/11/2003	18.50	16.91	17.49	0.54	95	
7/12/2003	21.76	20.29	20.76	0.38	96		8/12/2003	21.10	19.32	20.07	0.62	96		9/12/2003	18.19	16.91	17.39	0.42	96	
7/13/2003	20.29	19.48	19.99	0.25	96		8/13/2003	20.61	19.32	19.92	0.33	96		9/13/2003	16.91	16.28	16.62	0.20	96	
7/14/2003	19.48	17.87	18.68	0.41	96		8/14/2003	22.60	18.83	20.56	1.39	95		9/14/2003	18.03	16.28	16.91	0.60	96	
7/15/2003	20.29	17.54	18.79	0.99	96		8/15/2003	22.42	19.81	21.18	0.89	96		9/15/2003	17.07	16.43	16.71	0.20	96	
7/16/2003	19.32	18.03	18.70	0.31	96		8/16/2003	21.76	19.81	20.47	0.47	96		9/16/2003	17.22	15.97	16.57	0.42	96	
7/17/2003	20.93	17.87	19.13	1.13	96		8/17/2003	21.42	19.65	20.58	0.69	96		9/17/2003	16.28	15.02	15.77	0.31	96	
7/18/2003	23.27	19.16	20.86	1.53	96		8/18/2003	22.26	20.45	21.20	0.65	96		9/18/2003	15.18	14.39	14.82	0.18	96	
7/19/2003	21.92	20.13	20.79	0.46	96		8/19/2003	21.42	19.81	20.42	0.38	96		9/19/2003	15.65	14.86	15.12	0.25	96	
7/20/2003	21.42	19.65	20.52	0.60	96		8/20/2003	20.29	18.83	19.56	0.43	96		9/20/2003	15.65	14.39	14.96	0.39	96	
7/21/2003	22.09	19.32	20.71	0.78	96		8/21/2003	20.29	18.67	19.43	0.56	96		9/21/2003	15.18	14.54	14.89	0.21	96	
7/22/2003	21.10	18.35	19.52	0.97	96		8/22/2003	19.97	18.50	19.29	0.48	96		9/22/2003	15.65	14.86	15.14	0.32	96	
7/23/2003	20.61	18.35	19.26	0.78	96		8/23/2003	19.16	17.71	18.25	0.37	96		9/23/2003	15.97	14.70	15.32	0.31	96	
7/24/2003	20.93	18.35	19.42	0.91	96		8/24/2003	17.54	16.12	16.67	0.33	96		9/24/2003	15.02	14.39	14.69	0.20	96	
7/25/2003	21.76	18.35	19.86	1.26	96		8/25/2003	16.12	14.23	15.05	0.52	96		9/25/2003	15.81	14.54	15.00	0.45	96	
7/26/2003	21.42	18.83	19.97	0.87	96		8/26/2003	17.87	14.08	15.86	1.46	96		9/26/2003	15.49	14.54	14.99	0.30	96	
7/27/2003	21.10	18.67	19.63	0.85	96		8/27/2003	19.48	17.22	18.06	0.84	96		9/27/2003	15.97	14.08	15.03	0.76	96	
7/28/2003	21.59	18.35	19.76	1.20	96		8/28/2003	19.81	17.22	18.41	0.84	96		9/28/2003	16.43	15.34	16.01	0.36	96	
7/29/2003	22.26	18.67	20.31	1.28	96		8/29/2003	19.97	17.54	18.71	0.85	96		9/29/2003	16.59	15.34	16.06	0.38	96	
7/30/2003	21.59	18.67	20.07	0.98	96		8/30/2003	19.81	18.03	18.94	0.56	96		9/30/2003	16.43	15.49	15.94	0.33	96	
7/31/2003	21.42	18.67	20.05	0.98	96		8/31/2003	18.99	17.87	18.25	0.32	96								
Jul-2003	Max	Min	Mean	Stdev	N		Aug-2003	Max	Min	Mean	Stdev	N		Sep-2003	Max	Min	Mean	Stdev	N	
Max	23.27	20.29	21.48	1.53	96.00		Max	22.60	20.45	21.39	1.46	96.00		Max	19.48	18.19	18.54	0.76	96.00	
Min	19.16	16.91	18.26	0.25	96.00		Min	16.12	14.08	15.05	0.28	95.00		Min	15.02	14.08	14.69	0.18	95.00	
Mean	20.98	18.55	19.65	0.83	96.00		Mean	20.63	18.53	19.51	0.70	95.97		Mean	17.11	15.90	16.46	0.39	95.97	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments:

Appendix A: (cont'd)

Monthly Daily Water Temperatures

Glendale Lake

Longitude W 125 38.701
Latitude N 50 39.039
UTM E
UTM N

Temperature Logger
Onset Tidbit
378634

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.051246269
b= 0.997447686

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2003	16.28	15.18	15.70	0.38	96		11/1/2003							12/1/2004						
10/2/2003	15.65	15.18	15.41	0.17	96															
10/3/2003	15.49	14.86	15.25	0.22	96															
10/4/2003	15.34	14.70	15.03	0.14	96															
10/5/2003	15.18	14.70	14.87	0.12	96															
10/6/2003	14.70	13.77	14.13	0.25	96															
10/7/2003	14.70	13.77	14.23	0.34	96															
10/8/2003	14.54	13.47	14.02	0.25	96															
10/9/2003	13.62	13.01	13.36	0.19	96															
10/10/2003	13.62	13.16	13.36	0.16	96															
10/11/2003	13.32	12.39	12.82	0.27	96															
10/12/2003	12.54	11.92	12.27	0.17	96															
10/13/2003	12.70	12.08	12.36	0.14	96															
10/14/2003	12.39	11.92	12.11	0.13	55															

Oct-2003	Max	Min	Mean	Stdev	N	Nov-2003	Max	Min	Mean	Stdev	N	Dec-2004	Max	Min	Mean	Stdev	N
Max	16.28	15.18	15.70	0.38	96.00	Max						Max					
Min	12.39	11.92	12.11	0.12	55.00	Min						Min					
Mean	14.29	13.58	13.92	0.21	93.07	Mean						Mean					
N	14	14	14	14	14	N						N					

Comments: October 14 2003 Last download, Probe still logging

Appendix B: Glendale Spawning Channel Water Temperatures

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
204827

Temperature Correction Factor
Calibration Date 26-Oct-99
a= -0.211526367
b= 1.000760103

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/1998							8/1/1998							9/1/1998						
7/2/1998							8/2/1998							9/2/1998						
7/3/1998							8/3/1998							9/3/1998						
7/4/1998							8/4/1998							9/4/1998						
7/5/1998							8/5/1998							9/5/1998						
7/6/1998							8/6/1998							9/6/1998						
7/7/1998							8/7/1998							9/7/1998						
7/8/1998							8/8/1998							9/8/1998						
7/9/1998							8/9/1998							9/9/1998						
7/10/1998							8/10/1998							9/10/1998						
7/11/1998							8/11/1998							9/11/1998						
7/12/1998							8/12/1998							9/12/1998						
7/13/1998							8/13/1998							9/13/1998						
7/14/1998							8/14/1998							9/14/1998						
7/15/1998							8/15/1998							9/15/1998						
7/16/1998							8/16/1998							9/16/1998						
7/17/1998							8/17/1998							9/17/1998						
7/18/1998							8/18/1998							9/18/1998						
7/19/1998							8/19/1998							9/19/1998						
7/20/1998							8/20/1998							9/20/1998						
7/21/1998							8/21/1998							9/21/1998						
7/22/1998							8/22/1998							9/22/1998						
7/23/1998							8/23/1998							9/23/1998						
7/24/1998							8/24/1998							9/24/1998						
7/25/1998							8/25/1998							9/25/1998						
7/26/1998							8/26/1998							9/26/1998						
7/27/1998							8/27/1998							9/27/1998						
7/28/1998							8/28/1998							9/28/1998						
7/29/1998							8/29/1998							9/29/1998						
7/30/1998							8/30/1998							9/30/1998	16.85	15.27	16.13	0.48	50	
7/31/1998							8/31/1998													
Jul-1998	Max	Min	Mean	Stdev	N		Aug-1998	Max	Min	Mean	Stdev	N		Sep-1998	Max	Min	Mean	Stdev	N	
Max							Max							Max	16.85	15.27	16.13	0.48	50.00	
Min							Min							Min	16.35	15.27	16.13	0.48	50.00	
Mean							Mean							Mean	16.85	15.27	16.13	0.48	50.00	
N							N							N	1	1	1	1	1	

Comments: Install Onset Tidbit 204827 at head of Glendale Spawning Channel October 30 1998

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
204827

Temperature Correction Factor
Calibration Date 26-Oct-99
a= -0.211526367
b= 1.000760103

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/1998	15.59	15.11	15.36	0.14	96		11/1/1998	10.31	10.15	10.28	0.06	96		12/1/1998	6.75	6.59	6.60	0.04	96	
10/2/1998	16.22	14.79	15.34	0.50	96		11/2/1998	10.46	9.84	10.14	0.21	96		12/2/1998	6.75	6.59	6.61	0.06	96	
10/3/1998	15.43	14.96	15.15	0.17	96		11/3/1998	10.31	9.99	10.18	0.07	96		12/3/1998	6.59	6.59	6.59	0.00	96	
10/4/1998	15.11	14.48	14.84	0.17	96		11/4/1998	10.15	9.68	9.83	0.14	96		12/4/1998	6.59	6.43	6.54	0.08	96	
10/5/1998	14.48	14.17	14.33	0.07	96		11/5/1998	9.84	9.53	9.69	0.06	96		12/5/1998	6.43	6.28	6.38	0.07	96	
10/6/1998	14.64	14.17	14.36	0.20	96		11/6/1998	9.68	9.22	9.39	0.14	96		12/6/1998	6.28	6.12	6.26	0.06	96	
10/7/1998	14.48	13.39	14.13	0.17	96		11/7/1998	9.37	8.91	9.10	0.16	96		12/7/1998	6.28	6.12	6.22	0.08	96	
10/8/1998	13.86	13.39	13.60	0.15	96		11/8/1998	9.22	8.91	9.07	0.08	96		12/8/1998	6.28	6.12	6.22	0.08	96	
10/9/1998	13.70	13.24	13.41	0.17	96		11/9/1998	9.06	8.76	8.86	0.11	96		12/9/1998	6.12	6.12	6.12	0.00	96	
10/10/1998	13.86	13.09	13.41	0.34	96		11/10/1998	8.91	8.61	8.75	0.10	96		12/10/1998	6.28	6.12	6.20	0.08	96	
10/11/1998	13.70	13.09	13.30	0.17	96		11/11/1998	8.61	8.28	8.42	0.11	96		12/11/1998	6.28	6.12	6.14	0.05	96	
10/12/1998	13.09	12.47	12.69	0.19	96		11/12/1998	8.45	8.13	8.32	0.12	96		12/12/1998	6.43	6.12	6.21	0.08	96	
10/13/1998	12.78	12.32	12.48	0.16	96		11/13/1998	8.45	8.13	8.26	0.11	96		12/13/1998	6.28	6.12	6.25	0.06	96	
10/14/1998	12.63	12.32	12.49	0.12	96		11/14/1998	8.28	8.13	8.21	0.07	96		12/14/1998	6.12	5.97	6.09	0.06	96	
10/15/1998	12.78	12.16	12.37	0.18	96		11/15/1998	8.13	7.82	8.02	0.09	96		12/15/1998	5.97	5.97	5.97	0.00	96	
10/16/1998	12.32	11.69	12.01	0.12	96		11/16/1998	7.82	7.67	7.75	0.08	96		12/16/1998	6.12	5.97	6.00	0.06	96	
10/17/1998	12.01	11.54	11.77	0.19	96		11/17/1998	7.82	7.67	7.74	0.08	96		12/17/1998	6.12	5.81	5.97	0.10	96	
10/18/1998	12.01	11.69	11.87	0.09	96		11/18/1998	7.82	7.67	7.73	0.07	96		12/18/1998	5.81	5.50	5.64	0.07	96	
10/19/1998	12.01	11.54	11.70	0.16	96		11/19/1998	7.82	7.67	7.71	0.07	96		12/19/1998	5.50	5.03	5.17	0.15	96	
10/20/1998	11.85	10.92	11.28	0.26	96		11/20/1998	7.82	7.67	7.71	0.07	96		12/20/1998	5.03	4.72	4.87	0.07	96	
10/21/1998	11.54	10.92	11.13	0.17	96		11/21/1998	7.67	7.52	7.61	0.07	96		12/21/1998	5.03	4.72	4.89	0.04	96	
10/22/1998	11.38	10.77	11.00	0.20	96		11/22/1998	7.67	7.52	7.58	0.07	96		12/22/1998	4.88	4.72	4.75	0.06	96	
10/23/1998	11.38	10.77	10.98	0.19	96		11/23/1998	7.52	7.52	7.52	0.00	96		12/23/1998	4.72	4.41	4.67	0.08	96	
10/24/1998	11.23	10.61	10.94	0.24	96		11/24/1998	7.52	7.21	7.46	0.10	96		12/24/1998	4.72	4.41	4.52	0.12	96	
10/25/1998	11.38	11.07	11.28	0.08	96		11/25/1998	7.36	7.21	7.29	0.07	96		12/25/1998	4.72	4.72	4.72	0.00	96	
10/26/1998	11.54	11.38	11.43	0.07	96		11/26/1998	7.21	7.05	7.19	0.05	96		12/26/1998	4.88	4.72	4.73	0.04	96	
10/27/1998	11.38	11.07	11.20	0.12	96		11/27/1998	7.21	7.05	7.07	0.05	96		12/27/1998	4.72	4.56	4.67	0.07	96	
10/28/1998	11.54	10.92	11.07	0.16	96		11/28/1998	7.05	7.05	7.05	0.00	96		12/28/1998	4.88	4.56	4.72	0.08	96	
10/29/1998	11.07	10.61	10.77	0.12	96		11/29/1998	7.05	6.75	6.90	0.06	96		12/29/1998	4.88	4.72	4.78	0.08	96	
10/30/1998	10.61	10.31	10.47	0.10	96		11/30/1998	6.75	6.75	6.75	0.00	96		12/30/1998	4.72	4.72	4.72	0.00	96	
10/31/1998	10.31	10.31	10.31	0.00	96									12/31/1998	4.72	4.56	4.71	0.03	96	
Oct-1998	Max	Min	Mean	Stdev	N		Nov-1998	Max	Min	Mean	Stdev	N		Dec-1998	Max	Min	Mean	Stdev	N	
Max	16.22	15.11	15.36	0.50	96.00		Max	10.46	10.15	10.28	0.21	96.00		Max	6.75	6.59	6.61	0.15	96.00	
Min	10.31	10.31	10.31	0.00	96.00		Min	6.75	6.75	6.75	0.00	96.00		Min	4.72	4.41	4.52	0.00	96.00	
Mean	12.77	12.23	12.46	0.17	96.00		Mean	8.38	8.14	8.25	0.08	96.00		Mean	5.71	5.53	5.61	0.06	96.00	
N	31	31	31	31	31		N	30	30	30	30	30		N	31	31	31	31	31	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Temperature Logger: Onset Tidbit 204827

Temperature Correction Factor
Calibration Date: 26-Oct-99
a= -0.211526367
b= 1.000760103

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/1999	4.72	4.56	4.61	0.08	96		2/1/1999	3.94	3.78	3.84	0.08	96		3/1/1999	4.41	4.10	4.17	0.10	96	
1/2/1999	4.56	4.41	4.52	0.07	96		2/2/1999	4.10	3.94	4.02	0.08	96		3/2/1999	4.25	3.94	4.04	0.11	96	
1/3/1999	4.56	4.41	4.48	0.07	96		2/3/1999	4.10	3.94	3.98	0.07	96		3/3/1999	4.10	3.94	3.99	0.08	96	
1/4/1999	4.56	4.56	4.56	0.00	96		2/4/1999	4.25	3.94	4.03	0.10	96		3/4/1999	4.25	3.94	4.06	0.13	96	
1/5/1999	4.88	4.56	4.65	0.10	96		2/5/1999	4.10	3.94	3.94	0.03	96		3/5/1999	4.41	3.94	4.10	0.19	96	
1/6/1999	4.88	4.56	4.69	0.11	96		2/6/1999	4.10	3.94	4.00	0.08	96		3/6/1999	4.41	3.78	4.01	0.23	96	
1/7/1999	4.88	4.72	4.75	0.06	96		2/7/1999	4.10	3.78	3.92	0.07	96		3/7/1999	4.25	3.94	4.04	0.12	96	
1/8/1999	4.72	4.56	4.65	0.08	96		2/8/1999	3.94	3.47	3.76	0.09	96		3/8/1999	4.56	3.94	4.14	0.21	96	
1/9/1999	4.72	4.56	4.61	0.07	96		2/9/1999	3.94	3.63	3.73	0.11	96		3/9/1999	4.72	3.94	4.23	0.28	96	
1/10/1999	4.56	4.56	4.56	0.00	96		2/10/1999	3.94	3.63	3.74	0.11	96		3/10/1999	4.41	4.10	4.22	0.11	96	
1/11/1999	4.56	4.56	4.56	0.00	96		2/11/1999	3.78	3.63	3.72	0.07	96		3/11/1999	4.25	4.10	4.18	0.08	96	
1/12/1999	4.72	4.41	4.55	0.08	96		2/12/1999	3.78	3.78	3.78	0.00	96		3/12/1999	4.41	4.10	4.28	0.13	96	
1/13/1999	4.56	4.41	4.48	0.08	96		2/13/1999	3.94	3.78	3.83	0.07	96		3/13/1999	4.56	4.10	4.34	0.13	96	
1/14/1999	4.72	4.56	4.59	0.06	96		2/14/1999	4.10	3.78	3.86	0.11	96		3/14/1999	4.88	4.25	4.41	0.20	96	
1/15/1999	4.56	4.56	4.56	0.00	96		2/15/1999	3.94	3.78	3.81	0.06	96		3/15/1999	4.41	4.10	4.20	0.11	96	
1/16/1999	4.56	4.41	4.51	0.07	96		2/16/1999	4.10	3.78	3.95	0.13	96		3/16/1999	4.72	3.94	4.28	0.26	96	
1/17/1999	4.41	4.41	4.41	0.00	96		2/17/1999	4.10	3.78	3.98	0.09	96		3/17/1999	4.72	4.10	4.35	0.23	96	
1/18/1999	4.41	4.41	4.41	0.00	96		2/18/1999	4.10	3.78	3.86	0.11	96		3/18/1999	4.88	4.25	4.52	0.21	96	
1/19/1999	4.56	4.41	4.44	0.06	96		2/19/1999	3.94	3.78	3.85	0.08	96		3/19/1999	5.03	4.10	4.49	0.33	96	
1/20/1999	4.41	4.41	4.41	0.00	96		2/20/1999	4.25	3.78	3.95	0.17	96		3/20/1999	5.03	4.10	4.51	0.36	96	
1/21/1999	4.41	4.41	4.41	0.00	96		2/21/1999	4.10	3.94	3.96	0.05	96		3/21/1999	4.72	4.41	4.54	0.12	96	
1/22/1999	4.56	4.25	4.42	0.06	96		2/22/1999	4.10	3.94	3.99	0.08	96		3/22/1999	5.19	4.56	4.80	0.23	96	
1/23/1999	4.25	3.94	4.06	0.10	96		2/23/1999	4.10	3.78	3.92	0.12	96		3/23/1999	5.50	4.88	5.15	0.19	96	
1/24/1999	4.25	3.94	4.05	0.12	96		2/24/1999	4.41	3.78	4.06	0.27	96		3/24/1999	5.19	4.88	5.02	0.06	96	
1/25/1999	4.10	3.94	4.04	0.08	96		2/25/1999	4.25	3.94	4.09	0.05	96		3/25/1999	5.03	4.88	4.93	0.07	96	
1/26/1999	4.25	3.94	4.09	0.08	96		2/26/1999	4.25	3.94	4.05	0.12	96		3/26/1999	5.19	4.72	4.89	0.17	96	
1/27/1999	4.10	3.94	3.99	0.07	96		2/27/1999	4.10	3.94	4.03	0.08	96		3/27/1999	5.50	4.88	5.13	0.24	96	
1/28/1999	4.10	3.78	3.97	0.09	96		2/28/1999	4.41	3.94	4.15	0.15	96		3/28/1999	5.19	4.88	5.03	0.11	96	
1/29/1999	4.10	3.78	3.98	0.11	96									3/29/1999	5.19	4.72	4.99	0.13	96	
1/30/1999	3.94	3.78	3.83	0.07	96									3/30/1999	5.35	4.41	4.78	0.26	96	
1/31/1999	4.10	3.78	3.88	0.12	96									3/31/1999	5.35	4.25	4.75	0.36	96	
Jan-1999	Max	Min	Mean	Stdev	N		Feb-1999	Max	Min	Mean	Stdev	N		Mar-1999	Max	Min	Mean	Stdev	N	
Max	4.88	4.72	4.75	0.12	96.00		Max	4.41	3.94	4.15	0.27	96.00		Max	5.50	4.88	5.15	0.36	96.00	
Min	3.94	3.78	3.83	0.00	96.00		Min	3.78	3.47	3.72	0.00	96.00		Min	4.10	3.78	3.99	0.06	96.00	
Mean	4.48	4.31	4.38	0.06	96.00		Mean	4.08	3.82	3.92	0.09	96.00		Mean	4.78	4.27	4.47	0.18	96.00	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
204827

Temperature Correction Factor
Calibration Date 26-Oct-99
a= -0.211526367
b= 1.000760103

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/1999	5.50	4.56	4.93	0.29	96		5/1/1999	11.07	10.15	10.54	0.25	96		6/1/1999	15.74	14.01	14.75	0.64	96	
4/2/1999	5.35	4.72	5.00	0.22	96		5/2/1999	10.92	10.46	10.67	0.11	96		6/2/1999	16.22	12.93	15.25	0.86	96	
4/3/1999	6.90	5.03	5.82	0.81	96		5/3/1999	11.07	10.15	10.59	0.31	96		6/3/1999	13.55	12.63	13.17	0.27	96	
4/4/1999	6.43	5.50	6.11	0.20	96		5/4/1999	11.23	10.46	10.83	0.25	96		6/4/1999	14.64	13.55	14.15	0.42	96	
4/5/1999	6.12	5.03	5.42	0.35	96		5/5/1999	10.46	9.53	9.95	0.25	96		6/5/1999	15.11	14.32	14.59	0.26	96	
4/6/1999	5.50	5.03	5.31	0.14	96		5/6/1999	9.99	9.06	9.61	0.32	96		6/6/1999	14.48	13.24	13.96	0.42	96	
4/7/1999	5.35	4.72	5.10	0.21	96		5/7/1999	10.31	9.53	9.84	0.24	96		6/7/1999	15.11	14.17	14.56	0.29	96	
4/8/1999	6.59	4.88	5.65	0.68	96		5/8/1999	10.61	9.53	10.07	0.43	96		6/8/1999	16.37	14.32	15.13	0.78	96	
4/9/1999	6.59	5.81	6.17	0.30	96		5/9/1999	11.07	10.15	10.52	0.27	96		6/9/1999	16.06	15.59	15.78	0.18	96	
4/10/1999	7.36	5.97	6.51	0.53	96		5/10/1999	11.85	9.68	10.64	0.79	96		6/10/1999	17.65	15.43	16.28	0.83	96	
4/11/1999	7.52	6.90	7.21	0.20	96		5/11/1999	11.38	10.92	11.22	0.16	96		6/11/1999	17.97	16.06	16.84	0.66	96	
4/12/1999	7.05	6.28	6.65	0.25	96		5/12/1999	11.54	10.77	11.07	0.23	96		6/12/1999	17.97	15.11	16.03	1.08	96	
4/13/1999	7.36	6.12	6.64	0.40	96		5/13/1999	12.16	10.61	11.16	0.49	96		6/13/1999	15.90	14.79	15.32	0.37	96	
4/14/1999	7.82	6.43	6.81	0.48	96		5/14/1999	12.47	10.61	11.24	0.59	96		6/14/1999	17.49	14.79	15.98	0.78	96	
4/15/1999	7.82	5.81	6.48	0.59	96		5/15/1999	13.70	11.38	12.56	0.56	96		6/15/1999	16.22	15.43	15.97	0.24	96	
4/16/1999	6.90	5.50	6.12	0.44	96		5/16/1999	13.55	12.47	12.77	0.32	96		6/16/1999	16.69	15.74	16.13	0.34	96	
4/17/1999	7.05	5.81	6.39	0.37	96		5/17/1999	14.01	12.16	13.06	0.73	96		6/17/1999	18.13	16.06	16.80	0.82	96	
4/18/1999	9.68	7.05	8.16	1.07	96		5/18/1999	13.86	13.09	13.61	0.17	96		6/18/1999	18.13	16.22	17.07	0.60	96	
4/19/1999	9.37	7.67	8.81	0.39	96		5/19/1999	13.70	12.01	12.95	0.49	96		6/19/1999	17.17	16.22	16.75	0.30	96	
4/20/1999	8.76	6.90	7.76	0.55	96		5/20/1999	12.93	11.85	12.48	0.35	96		6/20/1999	16.85	15.74	16.32	0.28	96	
4/21/1999	8.28	7.67	7.88	0.20	96		5/21/1999	11.85	11.07	11.50	0.32	96		6/21/1999	15.90	15.43	15.72	0.13	96	
4/22/1999	9.53	6.90	8.25	0.77	96		5/22/1999	12.78	11.69	12.13	0.40	96		6/22/1999	15.90	15.59	15.80	0.10	96	
4/23/1999	9.37	7.05	8.17	0.71	96		5/23/1999	15.11	11.69	12.92	1.06	96		6/23/1999	15.74	14.96	15.42	0.25	96	
4/24/1999	9.06	7.21	8.20	0.77	96		5/24/1999	14.64	12.32	12.99	0.46	96		6/24/1999	16.69	14.48	15.24	0.66	96	
4/25/1999	10.15	8.76	9.42	0.60	96		5/25/1999	14.64	13.24	13.85	0.52	96		6/25/1999	16.37	15.43	16.05	0.22	96	
4/26/1999	11.54	9.84	10.32	0.47	96		5/26/1999	14.17	13.55	13.83	0.21	91		6/26/1999	16.22	15.59	15.91	0.17	96	
4/27/1999	13.09	9.99	11.28	1.18	96		5/27/1999	13.70	12.01	12.81	0.43	96		6/27/1999	16.06	15.59	15.72	0.14	96	
4/28/1999	12.78	8.45	11.29	1.31	96		5/28/1999	14.17	12.01	12.98	0.69	96		6/28/1999	15.59	14.64	15.02	0.25	96	
4/29/1999	11.38	8.61	9.66	0.79	96		5/29/1999	14.64	12.78	13.53	0.60	96		6/29/1999	14.96	14.01	14.57	0.28	96	
4/30/1999	10.92	7.82	9.98	1.02	96		5/30/1999	13.70	12.63	13.17	0.35	96		6/30/1999	15.11	14.64	14.86	0.14	96	
							5/31/1999	14.79	12.78	13.64	0.79	96								
Apr-1999	Max	Min	Mean	Stdev	N		May-1999	Max	Min	Mean	Stdev	N		Jun-1999	Max	Min	Mean	Stdev	N	
Max	13.09	9.99	11.29	1.31	96.00		Max	15.11	13.55	13.85	1.06	96.00		Max	18.13	16.22	17.07	1.08	96.00	
Min	5.35	4.56	4.93	0.14	96.00		Min	9.99	9.06	9.61	0.11	91.00		Min	13.55	12.63	13.17	0.10	96.00	
Mean	8.24	6.60	7.39	0.54	96.00		Mean	12.65	11.30	11.89	0.42	95.84		Mean	16.20	14.89	15.51	0.43	96.00	
N	30	30	30	30	30		N	31	31	31	31	31		N	30	30	30	30	30	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Temperature Logger: Onset Tidbit 204827

Temperature Correction Factor
Calibration Date: 26-Oct-99
a= -0.211526367
b= 1.000760103

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/1999	15.11	14.64	14.85	0.21	96		8/1/1999	20.23	18.78	19.38	0.56	96		9/1/1999	18.78	17.17	17.83	0.48	96	
7/2/1999	15.59	14.79	15.02	0.25	96		8/2/1999	21.06	19.42	20.08	0.61	96		9/2/1999	18.29	16.85	17.39	0.47	96	
7/3/1999	15.74	14.64	15.04	0.36	96		8/3/1999	20.39	19.26	19.86	0.40	96		9/3/1999	18.29	16.69	17.35	0.54	96	
7/4/1999	15.11	14.48	14.80	0.20	96		8/4/1999	20.72	19.26	19.90	0.51	96		9/4/1999	17.81	17.17	17.46	0.21	96	
7/5/1999	18.29	14.64	15.99	1.39	96		8/5/1999	20.56	18.94	19.63	0.54	96		9/5/1999	18.62	17.01	17.65	0.56	96	
7/6/1999	17.65	15.27	16.15	0.69	96		8/6/1999	21.06	19.42	20.13	0.58	96		9/6/1999	18.29	17.49	17.86	0.24	96	
7/7/1999	16.06	14.64	15.28	0.50	96		8/7/1999	20.72	19.42	19.88	0.43	96		9/7/1999	17.97	17.01	17.45	0.33	96	
7/8/1999	16.85	15.43	16.05	0.49	96		8/8/1999	21.06	20.56	20.75	0.20	96		9/8/1999	17.65	16.53	17.04	0.34	96	
7/9/1999	17.01	15.11	15.90	0.67	96		8/9/1999	21.90	20.56	21.12	0.46	96		9/9/1999	17.33	16.53	16.75	0.24	96	
7/10/1999	17.81	15.59	16.41	0.77	96		8/10/1999	21.06	19.10	19.86	0.55	96		9/10/1999	17.81	16.37	16.90	0.46	96	
7/11/1999	18.78	16.06	17.39	0.92	96		8/11/1999	20.72	19.10	19.92	0.58	96		9/11/1999	17.81	16.22	16.78	0.52	96	
7/12/1999	18.29	15.43	17.19	0.73	96		8/12/1999	20.56	19.58	20.10	0.34	96		9/12/1999	16.46	15.74	16.01	0.01	96	
7/13/1999	18.13	15.11	17.26	1.01	96		8/13/1999	20.89	19.74	20.27	0.40	96		9/13/1999	18.29	15.90	17.13	0.86	96	
7/14/1999	18.29	15.59	17.35	0.89	96		8/14/1999	21.06	19.58	20.25	0.52	96		9/14/1999	18.29	15.90	16.62	0.56	96	
7/15/1999	16.85	15.43	16.31	0.36	96		8/15/1999	20.56	19.10	19.55	0.42	96		9/15/1999	16.22	15.59	15.82	0.26	96	
7/16/1999	18.13	16.53	17.16	0.58	96		8/16/1999	19.26	18.62	19.03	0.14	96		9/16/1999	16.53	15.74	16.04	0.29	96	
7/17/1999	18.29	16.53	17.19	0.60	96		8/17/1999	19.58	17.97	18.63	0.62	96		9/17/1999	16.85	15.90	16.19	0.31	96	
7/18/1999	19.91	15.59	17.50	1.51	96		8/18/1999	19.58	17.97	18.69	0.61	96		9/18/1999	17.01	15.59	16.03	0.46	96	
7/19/1999	19.26	17.49	18.26	0.47	96		8/19/1999	20.07	18.62	19.25	0.58	95		9/19/1999	17.01	15.59	16.04	0.45	96	
7/20/1999	19.42	16.85	17.82	0.79	96		8/20/1999	20.56	19.42	19.94	0.43	96		9/20/1999	16.85	15.74	16.07	0.35	96	
7/21/1999	18.62	16.06	17.33	0.94	96		8/21/1999	21.22	19.58	20.24	0.51	96		9/21/1999	16.69	15.59	15.95	0.35	96	
7/22/1999	19.91	17.49	18.76	0.87	96		8/22/1999	20.56	19.10	19.77	0.42	96		9/22/1999	17.17	15.43	16.19	0.65	96	
7/23/1999	20.56	19.91	20.22	0.23	96		8/23/1999	20.07	18.94	19.40	0.41	96		9/23/1999	17.01	16.37	16.63	0.23	96	
7/24/1999	20.56	19.58	19.99	0.32	96		8/24/1999	19.42	18.94	19.21	0.13	96		9/24/1999	16.53	15.59	16.06	0.20	96	
7/25/1999	20.56	19.58	19.92	0.38	96		8/25/1999	20.07	18.62	19.18	0.51	96		9/25/1999	16.06	15.27	15.58	0.24	96	
7/26/1999	19.91	18.78	19.43	0.28	96		8/26/1999	19.42	17.17	18.69	0.68	96		9/26/1999	16.22	14.96	15.52	0.37	96	
7/27/1999	19.58	17.81	18.65	0.58	96		8/27/1999	19.74	17.49	18.59	0.67	96		9/27/1999	15.90	14.96	15.29	0.32	96	
7/28/1999	18.94	18.46	18.74	0.15	96		8/28/1999	18.62	17.97	18.31	0.18	96		9/28/1999	14.96	14.17	14.52	0.17	96	
7/29/1999	20.07	18.62	19.16	0.52	96		8/29/1999	18.46	17.81	18.05	0.23	96		9/29/1999	15.11	14.17	14.51	0.36	96	
7/30/1999	19.91	18.62	19.18	0.48	96		8/30/1999	18.78	17.49	18.05	0.43	96		9/30/1999	14.64	14.01	14.40	0.16	95	
7/31/1999	19.91	18.13	18.99	0.66	96		8/31/1999	19.26	17.97	18.40	0.42	96								
Jul-1999	Max	Min	Mean	Stdev	N		Aug-1999	Max	Min	Mean	Stdev	N		Sep-1999	Max	Min	Mean	Stdev	N	
Max	20.56	19.91	20.22	1.51	96.00		Max	21.90	20.56	21.12	0.68	96.00		Max	18.78	17.49	17.86	0.91	96.00	
Min	15.11	14.48	14.80	0.15	96.00		Min	18.46	17.17	18.05	0.13	95.00		Min	14.64	14.01	14.40	0.16	95.00	
Mean	18.36	16.55	17.40	0.60	96.00		Mean	20.24	18.89	19.49	0.45	95.97		Mean	17.15	15.91	16.40	0.40	95.97	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments:

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
204827

Temperature Correction Factor
Calibration Date 26-Oct-99
a= -0.211526367
b= 1.000750103

Temperature Logger
Onset Tidbit
256406

Calibration Date 27-Apr-99
a= 0.225837299
b= 1.000664717

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/1999	14.79	13.86	14.22	0.30	96		11/1/1999	10.05	9.15	9.33	0.17	96		12/1/1999	7.11	6.51	6.52	0.04	96	
10/2/1999	14.79	13.70	14.06	0.33	96		11/2/1999	9.58	8.84	9.04	0.09	96		12/2/1999	6.95	6.36	6.48	0.06	96	
10/3/1999	14.32	13.70	13.92	0.21	96		11/3/1999	9.42	8.53	8.78	0.14	96		12/3/1999	6.80	6.36	6.36	0.00	96	
10/4/1999	14.96	13.55	13.97	0.42	96		11/4/1999	9.27	8.37	8.58	0.15	96		12/4/1999	6.80	6.36	6.36	0.00	96	
10/5/1999	14.01	13.24	13.62	0.26	96		11/5/1999	8.96	8.21	8.35	0.10	96		12/5/1999	6.80	6.20	6.32	0.07	96	
10/6/1999	13.86	13.39	13.62	0.10	96		11/6/1999	8.65	7.75	7.95	0.13	96		12/6/1999	6.80	6.20	6.26	0.08	96	
10/7/1999	14.01	13.55	13.72	0.17	96		11/7/1999	8.35	7.91	7.91	0.00	96		12/7/1999	6.64	5.89	6.08	0.07	96	
10/8/1999	14.01	13.55	13.75	0.17	96		11/8/1999	8.50	7.91	7.93	0.05	96		12/8/1999	6.49	5.89	5.97	0.08	96	
10/9/1999	14.01	13.09	13.48	0.33	96		11/9/1999	8.35	7.44	7.70	0.13	96		12/9/1999						Partial Day
10/10/1999	14.01	13.39	13.63	0.23	96		11/10/1999	8.04	7.28	7.43	0.08	96		12/10/1999	6.49	5.89	6.03	0.05	96	
10/11/1999	13.70	12.93	13.37	0.27	96		11/11/1999	7.88	7.28	7.42	0.06	96		12/11/1999	6.49	5.89	5.98	0.08	96	
10/12/1999	13.24	12.16	12.52	0.25	96		11/12/1999	8.04	7.28	7.44	0.10	96		12/12/1999	6.49	5.89	6.00	0.07	96	
10/13/1999	13.15	12.01	12.31	0.19	96	Change	11/13/1999	7.72	7.28	7.28	0.00	96		12/13/1999	6.33	5.73	5.76	0.06	96	
10/14/1999	12.84	11.94	12.11	0.13	96		11/14/1999	7.72	7.13	7.23	0.07	96		12/14/1999	6.17	5.58	5.68	0.07	96	
10/15/1999	12.84	11.79	11.96	0.19	96		11/15/1999	7.72	7.13	7.21	0.08	96		12/15/1999	6.17	5.58	5.69	0.07	96	
10/16/1999	12.22	11.63	11.68	0.08	96		11/16/1999	8.04	7.28	7.49	0.10	96		12/16/1999	6.33	5.73	5.78	0.06	96	
10/17/1999	12.53	11.48	11.74	0.21	96		11/17/1999	8.04	7.28	7.46	0.09	96		12/17/1999	6.17	5.73	5.73	0.00	96	
10/18/1999	12.37	11.48	11.64	0.16	96		11/18/1999	7.72	7.28	7.28	0.00	96		12/18/1999	6.17	5.58	5.66	0.08	96	
10/19/1999	12.37	11.32	11.48	0.19	96		11/19/1999	7.72	7.28	7.28	0.00	96		12/19/1999	6.02	5.42	5.56	0.06	96	
10/20/1999	12.22	11.17	11.44	0.18	96		11/20/1999	7.72	6.98	7.20	0.08	96		12/20/1999	6.17	5.58	5.61	0.06	96	
10/21/1999	12.53	11.17	11.46	0.28	96		11/21/1999	7.72	6.98	7.09	0.10	96		12/21/1999	6.02	5.42	5.48	0.08	96	
10/22/1999	12.53	11.17	11.44	0.30	96		11/22/1999	7.57	6.98	7.03	0.07	96		12/22/1999	6.02	5.27	5.42	0.03	96	
10/23/1999	11.91	11.17	11.31	0.07	96		11/23/1999	7.57	6.98	7.02	0.07	96		12/23/1999	5.86	5.27	5.33	0.07	96	
10/24/1999	12.22	10.86	11.26	0.29	96		11/24/1999	7.42	6.82	6.96	0.06	96		12/24/1999	5.86	5.27	5.33	0.07	96	
10/25/1999	11.91	11.02	11.12	0.12	96		11/25/1999	7.42	6.82	6.92	0.08	96		12/25/1999	5.71	5.11	5.24	0.06	96	
10/26/1999	11.75	10.71	10.94	0.20	96		11/26/1999	7.26	6.67	6.78	0.07	96		12/26/1999	5.55	4.96	5.04	0.08	96	
10/27/1999	11.29	10.24	10.35	0.15	96		11/27/1999	7.11	6.51	6.64	0.06	96		12/27/1999	5.55	4.96	4.99	0.06	96	
10/28/1999	10.67	10.08	10.18	0.08	96		11/28/1999	7.26	6.51	6.70	0.12	96		12/28/1999	5.55	4.96	5.00	0.07	96	
10/29/1999	10.67	9.77	9.94	0.18	96		11/29/1999	7.42	6.67	6.77	0.11	96		12/29/1999	5.55	5.11	5.11	0.00	96	
10/30/1999	10.38	9.62	9.79	0.06	96		11/30/1999	7.26	6.67	6.71	0.06	96		12/30/1999	5.55	4.96	5.07	0.07	96	
10/31/1999	10.20	9.46	9.56	0.09	100									12/31/1999	5.55	4.96	5.03	0.08	96	
Oct-1999	Max	Min	Mean	Stdev	N		Nov-1999	Max	Min	Mean	Stdev	N		Dec-1999	Max	Min	Mean	Stdev	N	
Max	14.96	13.86	14.22	0.42	100.00		Max	10.05	9.15	9.33	0.17	96.00		Max	7.11	6.51	6.52	0.08	96.00	
Min	10.20	9.46	9.56	0.06	96.00		Min	7.11	6.51	6.64	0.00	96.00		Min	5.55	4.96	4.99	0.00	96.00	
Mean	12.79	11.88	12.11	0.20	96.13		Mean	8.05	7.38	7.50	0.08	96.00		Mean	6.21	5.52	5.70	0.06	96.00	
N	31	31	31	31	31		N	30	30	30	30	30		N	30	30	30	30	30	

Comments: Oct 13 1999 Change Tidbit 204827 for Tidbit
December 9 1999 Partial day of data

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
256406

Temperature Correction Factor
Calibration Date 27-Apr-99
a= 0.225837299
b= 1.000664717

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2000	5.55	4.96	5.01	0.07	96		2/1/2000	4.61	3.70	3.92	0.19	96		3/1/2000	4.30	3.70	3.78	0.08	96	
1/2/2000	5.40	4.80	4.90	0.08	96		2/2/2000	4.45	3.55	3.80	0.12	96		3/2/2000	4.61	3.70	3.87	0.18	96	
1/3/2000	5.24	4.64	4.68	0.07	96		2/3/2000	4.30	3.39	3.58	0.15	96		3/3/2000	4.30	3.70	3.85	0.04	96	
1/4/2000	5.40	4.64	4.89	0.10	96		2/4/2000	4.30	3.39	3.51	0.15	96		3/4/2000	4.61	3.55	3.72	0.20	96	
1/5/2000	5.40	4.80	4.86	0.08	96		2/5/2000	4.14	3.23	3.47	0.20	96		3/5/2000	4.61	3.39	3.63	0.24	96	
1/6/2000	5.24	4.80	4.80	0.00	96		2/6/2000	4.14	3.55	3.61	0.07	96		3/6/2000	4.61	3.23	3.61	0.29	96	
1/7/2000	5.40	4.80	4.89	0.08	96		2/7/2000	4.61	3.55	3.78	0.24	96		3/7/2000	4.61	3.39	3.74	0.27	96	
1/8/2000	5.40	4.64	4.90	0.08	96		2/8/2000	4.45	3.86	3.88	0.05	96		3/8/2000	4.61	3.55	3.88	0.26	96	
1/9/2000	5.08	4.33	4.48	0.10	96		2/9/2000	4.45	3.70	3.80	0.09	96		3/9/2000	4.92	3.70	4.03	0.26	96	
1/10/2000	4.92	4.48	4.48	0.00	96		2/10/2000	4.61	3.70	3.82	0.16	96		3/10/2000	4.77	3.86	4.06	0.12	96	
1/11/2000	4.92	4.33	4.43	0.07	96		2/11/2000	4.14	3.39	3.60	0.09	96		3/11/2000	4.77	3.86	4.03	0.18	96	
1/12/2000	4.77	4.17	4.30	0.06	96		2/12/2000	4.30	3.39	3.58	0.14	96		3/12/2000	4.61	3.86	4.01	0.04	96	
1/13/2000	4.61	4.01	4.12	0.08	96		2/13/2000	4.14	3.23	3.49	0.12	96		3/13/2000	4.45	3.86	3.91	0.07	96	
1/14/2000	4.45	4.01	4.01	0.00	96		2/14/2000	3.99	3.07	3.25	0.18	96		3/14/2000	5.08	3.86	4.06	0.27	96	
1/15/2000	4.45	3.39	3.75	0.19	96		2/15/2000	4.14	3.23	3.40	0.18	96		3/15/2000	4.45	3.55	3.80	0.14	96	
1/16/2000	4.30	3.70	3.79	0.08	96		2/16/2000	4.14	3.07	3.38	0.22	96		3/16/2000	4.61	3.86	4.00	0.15	96	
1/17/2000	4.30	3.70	3.78	0.08	96		2/17/2000	4.14	3.07	3.33	0.24	96		3/17/2000	4.77	4.01	4.37	0.08	95	
1/18/2000	4.61	3.86	3.98	0.11	96		2/18/2000	4.14	3.07	3.36	0.25	96		3/18/2000	4.92	4.61	4.70	0.13	96	
1/19/2000	4.30	3.55	3.65	0.08	96		2/19/2000	3.99	3.23	3.37	0.13	96		3/19/2000	5.40	4.45	4.77	0.26	96	
1/20/2000	4.14	3.39	3.59	0.10	96		2/20/2000	3.99	3.23	3.36	0.14	96		3/20/2000	4.92	4.30	4.61	0.22	96	
1/21/2000	4.30	3.70	3.76	0.08	96		2/21/2000	4.45	3.39	3.63	0.24	96		3/21/2000	4.92	4.61	4.73	0.13	96	
1/22/2000	4.45	3.70	3.88	0.10	96		2/22/2000	4.45	3.55	3.81	0.13	96		3/22/2000	5.24	4.45	4.82	0.23	96	
1/23/2000	4.45	3.70	3.89	0.08	96		2/23/2000	4.45	3.55	3.76	0.14	96		3/23/2000	5.71	4.92	5.23	0.23	96	
1/24/2000	4.14	3.23	3.48	0.14	96		2/24/2000	4.30	3.55	3.68	0.11	96		3/24/2000	5.71	5.08	5.31	0.23	96	
1/25/2000	3.99	3.39	3.49	0.08	96		2/25/2000	3.99	3.55	3.55	0.00	96		3/25/2000	5.86	5.08	5.30	0.28	96	
1/26/2000	4.30	3.55	3.68	0.14	96		2/26/2000	4.45	3.55	3.69	0.17	96		3/26/2000	5.40	5.08	5.16	0.08	96	
1/27/2000	4.30	3.70	3.76	0.08	96		2/27/2000	4.30	3.55	3.67	0.13	96		3/27/2000	5.86	5.24	5.55	0.22	96	
1/28/2000	4.30	3.55	3.69	0.12	96		2/28/2000	4.14	3.55	3.60	0.07	96		3/28/2000	5.86	5.40	5.60	0.15	96	
1/29/2000	4.30	3.55	3.65	0.14	96		2/29/2000	4.61	3.55	3.76	0.23	96		3/29/2000	6.49	5.40	5.85	0.37	96	
1/30/2000	3.99	3.07	3.35	0.18	96									3/30/2000	8.35	5.86	6.84	0.90	96	
1/31/2000	4.30	3.55	3.70	0.14	96									3/31/2000	8.35	6.02	7.50	0.75	96	
Jan-2000	Max	Min	Mean	Stdev	N		Feb-2000	Max	Min	Mean	Stdev	N		Mar-2000	Max	Min	Mean	Stdev	N	
Max	5.55	4.96	5.01	0.19	96.00		Max	4.61	3.86	3.92	0.25	96.00		Max	8.35	6.02	7.50	0.90	96.00	
Min	3.99	3.07	3.35	0.00	96.00		Min	3.99	3.07	3.25	0.00	96.00		Min	4.30	3.23	3.61	0.04	95.00	
Mean	4.67	3.99	4.12	0.09	96.00		Mean	4.29	3.43	3.60	0.15	96.00		Mean	5.21	4.29	4.59	0.23	95.97	
N	31	31	31	31	31		N	29	29	29	29	29		N	31	31	31	31	31	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
256406

Temperature Correction Factor
Calibration Date 27-Apr-99
a= 0.225837299
b= 1.000664717

Date	Max	Min	Mean	StDev	Count	Comments
4/1/2000	8.35	6.02	6.98	0.91	96	
4/2/2000	9.89	7.26	8.55	0.62	92	
4/3/2000	9.11	6.64	7.78	0.92	96	
4/4/2000	9.11	8.04	8.54	0.36	96	
4/5/2000	9.11	8.35	8.76	0.22	96	
4/6/2000	9.27	8.04	8.73	0.31	96	
4/7/2000	8.04	7.42	7.63	0.20	96	
4/8/2000	7.42	5.71	6.84	0.43	96	
4/9/2000	7.57	5.40	6.27	0.78	96	
4/10/2000	8.04	6.33	6.97	0.55	96	
4/11/2000	7.72	6.80	7.20	0.30	96	
4/12/2000	8.65	6.95	7.58	0.55	96	
4/13/2000	9.11	7.11	7.74	0.67	96	
4/14/2000	7.57	5.08	5.81	0.56	96	
4/15/2000	5.40	4.45	4.85	0.31	96	
4/16/2000	7.26	4.77	6.10	0.74	96	
4/17/2000	8.65	7.11	7.83	0.52	96	
4/18/2000	8.19	7.26	7.64	0.36	96	
4/19/2000	8.65	7.57	8.06	0.41	96	
4/20/2000	8.65	5.86	7.58	0.94	96	
4/21/2000	8.04	5.71	7.05	0.87	96	
4/22/2000	9.58	7.42	8.53	0.74	96	
4/23/2000	9.27	8.35	8.84	0.25	96	
4/24/2000	10.36	8.35	9.22	0.75	96	
4/25/2000	10.20	9.42	9.77	0.24	96	
4/26/2000	10.36	9.27	9.74	0.42	96	
4/27/2000	10.20	9.58	9.86	0.15	96	
4/28/2000	9.74	9.27	9.36	0.11	96	
4/29/2000	9.27	8.81	9.03	0.13	96	
4/30/2000	8.96	8.04	8.64	0.25	96	

Apr-2000	Max	Min	Mean	Stdev	N
Max	10.36	9.58	9.86	0.94	96.00
Min	5.40	4.45	4.85	0.11	92.00
Mean	8.73	7.21	7.91	0.49	95.87
N	30	30	30	30	30

Date	Max	Min	Mean	StDev	Count	Comments
5/1/2000	10.36	8.35	9.09	0.71	96	
5/2/2000	9.89	9.11	9.46	0.15	96	
5/3/2000	9.27	8.96	9.12	0.14	96	
5/4/2000	9.11	8.19	8.56	0.25	96	
5/5/2000	8.96	7.42	8.23	0.56	96	
5/6/2000	8.96	7.88	8.44	0.36	96	
5/7/2000	12.06	8.65	9.85	1.14	96	
5/8/2000	11.60	9.27	10.41	0.80	96	
5/9/2000	12.37	9.89	11.12	0.74	96	
5/10/2000	13.31	10.98	11.88	0.92	96	
5/11/2000	12.84	11.14	12.24	0.43	96	
5/12/2000	13.15	11.14	11.81	0.70	96	
5/13/2000	13.00	11.14	11.81	0.65	96	
5/14/2000	13.00	9.42	12.04	1.07	96	
5/15/2000	11.75	8.81	10.29	1.03	96	
5/16/2000	12.06	9.27	10.86	0.90	96	
5/17/2000	14.86	10.36	13.41	1.24	96	
5/18/2000	14.71	13.31	14.19	0.46	96	
5/19/2000	14.40	13.00	13.87	0.41	96	
5/20/2000	14.08	10.82	13.48	0.64	96	
5/21/2000	13.00	10.05	12.27	0.79	96	
5/22/2000	14.71	12.84	13.62	0.61	96	
5/23/2000	14.71	11.75	14.10	0.69	96	
5/24/2000	13.31	10.67	12.12	0.91	96	
5/25/2000	14.86	13.31	14.16	0.41	96	
5/26/2000	13.77	13.46	13.62	0.13	96	
5/27/2000	13.77	10.67	12.58	0.91	96	
5/28/2000	13.77	10.82	12.62	0.90	96	
5/29/2000	14.55	13.31	13.67	0.39	96	
5/30/2000	14.71	12.69	13.51	0.64	96	
5/31/2000	15.97	14.86	15.50	0.29	96	

May-2000	Max	Min	Mean	Stdev	N
Max	15.97	14.86	15.50	1.24	96.00
Min	8.96	7.42	8.23	0.13	96.00
Mean	12.80	10.70	11.87	0.64	96.00
N	31	31	31	31	31

Date	Max	Min	Mean	StDev	Count	Comments
6/1/2000	15.82	14.24	14.92	0.55	96	
6/2/2000	15.66	13.31	14.39	0.62	96	
6/3/2000	16.61	13.00	14.07	0.96	96	
6/4/2000	16.92	15.97	16.46	0.28	96	
6/5/2000	16.61	14.40	15.32	0.67	96	
6/6/2000	14.71	13.61	14.39	0.22	96	
6/7/2000	15.50	13.61	14.43	0.57	96	
6/8/2000	16.13	14.40	15.07	0.62	96	
6/9/2000	16.45	15.50	16.02	0.35	96	
6/10/2000	16.29	15.66	15.96	0.24	96	
6/11/2000	16.13	15.34	15.77	0.23	96	
6/12/2000	15.50	13.15	14.69	0.81	96	
6/13/2000	14.86	13.15	14.36	0.41	96	
6/14/2000	14.55	13.61	14.20	0.26	96	
6/15/2000	16.61	14.40	15.20	0.88	96	
6/16/2000	16.45	12.22	14.77	1.31	96	
6/17/2000	14.08	12.22	13.48	0.53	96	
6/18/2000	16.13	13.92	15.02	0.84	96	
6/19/2000	16.76	15.66	16.09	0.36	96	
6/20/2000	16.61	14.08	15.85	0.77	96	
6/21/2000	16.29	14.86	15.55	0.45	96	
6/22/2000	17.88	15.02	16.44	0.87	96	
6/23/2000	15.66	14.40	15.33	0.42	96	
6/24/2000	[illegible]2	15.34	15.93	0.57	96	
6/25/2000	17.40	15.18	15.93	0.70	96	
6/26/2000	17.08	14.55	15.69	0.84	96	
6/27/2000	17.88	15.02	16.37	1.02	96	
6/28/2000	19.17	16.29	17.57	0.98	96	
6/29/2000	19.17	15.66	17.56	1.35	96	
6/30/2000	19.98	18.68	19.11	0.45	96	

Jun-2000	Max	Min	Mean	Stdev	N
Max	19.98	18.68	19.11	1.35	96.00
Min	14.08	12.22	13.48	0.22	96.00
Mean	16.52	14.55	15.53	0.64	96.00
N	30	30	30	30	30

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger Onset Tidbit 256406

Temperature Correction Factor
Calibration Date 27-Apr-99
a= 0.225837299
b= 1.000664717

Temperature Logger Onset Tidbit 378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2000	19.17	18.52	18.87	0.21	96		8/1/2000	21.12	19.66	20.19	0.56	96		9/1/2000	17.56	16.76	17.11	0.24	96	
7/2/2000	19.01	18.20	18.60	0.29	96		8/2/2000	20.31	19.33	19.77	0.28	96		9/2/2000	18.36	16.13	16.90	0.71	96	
7/3/2000	18.85	18.04	18.30	0.20	96		8/3/2000	20.31	18.36	19.26	0.64	96		9/3/2000	17.88	15.97	16.78	0.57	96	
7/4/2000	18.04	17.24	17.72	0.21	96		8/4/2000	20.47	18.85	19.59	0.60	96		9/4/2000	18.52	16.45	17.13	0.74	96	
7/5/2000	17.24	16.92	17.06	0.12	96		8/5/2000	20.63	19.01	19.75	0.57	96		9/5/2000	20.47	16.29	17.31	0.78	95	change
7/6/2000	18.36	16.76	17.44	0.64	96		8/6/2000	19.82	19.01	19.40	0.30	96		9/6/2000	19.23	17.13	17.70	0.63	96	
7/7/2000	19.17	17.08	18.00	0.80	96		8/7/2000	20.15	19.01	19.52	0.35	96		9/7/2000	17.45	16.65	17.03	0.21	96	
7/8/2000	18.52	16.76	17.57	0.53	96		8/8/2000	20.31	19.01	19.56	0.44	96		9/8/2000	17.45	16.34	16.81	0.44	96	
7/9/2000	18.85	17.08	17.84	0.68	96		8/9/2000	20.31	19.01	19.57	0.41	96		9/9/2000	17.13	16.81	16.92	0.10	96	
7/10/2000	20.63	17.88	19.16	1.07	96		8/10/2000	21.12	19.33	20.02	0.65	96		9/10/2000	17.93	16.49	17.00	0.44	96	
7/11/2000	20.63	19.17	19.70	0.48	96		8/11/2000	21.28	19.66	20.42	0.57	96		9/11/2000	16.49	15.86	16.19	0.20	96	
7/12/2000	19.50	18.20	18.80	0.43	96		8/12/2000	20.63	19.50	20.09	0.35	96		9/12/2000	17.13	15.70	16.28	0.42	96	
7/13/2000	19.17	17.40	18.44	0.38	96		8/13/2000	20.63	19.33	19.89	0.49	96		9/13/2000	16.81	15.86	16.21	0.34	96	
7/14/2000	18.36	16.76	17.52	0.61	96		8/14/2000	20.96	19.50	20.10	0.53	96		9/14/2000	16.81	16.02	16.27	0.28	96	
7/15/2000	19.50	17.88	18.47	0.60	96		8/15/2000	21.12	19.17	20.04	0.69	96		9/15/2000	16.81	15.70	16.13	0.37	96	
7/16/2000	19.17	17.08	18.28	0.44	96		8/16/2000	21.28	19.33	20.17	0.68	96		9/16/2000	16.97	15.86	16.29	0.41	96	
7/17/2000	18.68	16.45	17.49	0.82	96		8/17/2000	21.12	19.66	20.15	0.53	95		9/17/2000	17.13	16.34	16.68	0.28	96	
7/18/2000	19.17	17.24	18.06	0.71	96		8/18/2000	19.50	18.68	19.04	0.25	96		9/18/2000	18.25	17.13	17.60	0.38	96	
7/19/2000	19.98	17.88	18.77	0.79	96		8/19/2000	18.68	18.20	18.30	0.13	96		9/19/2000	17.61	16.18	17.02	0.41	96	
7/20/2000	21.12	18.85	19.77	0.72	96		8/20/2000	18.20	17.88	18.05	0.12	96		9/20/2000	17.45	16.18	16.77	0.37	96	
7/21/2000	20.15	18.36	19.15	0.66	96		8/21/2000	18.85	17.72	18.13	0.36	96		9/21/2000	17.29	14.44	16.36	0.68	96	
7/22/2000	19.33	18.68	19.01	0.26	96		8/22/2000	18.20	17.40	17.84	0.29	96		9/22/2000	16.97	14.75	15.56	0.73	96	
7/23/2000	22.62	19.01	20.53	1.32	96		8/23/2000	19.01	17.56	18.10	0.44	96		9/23/2000	16.81	15.07	15.66	0.57	96	
7/24/2000	22.12	21.12	21.46	0.27	96		8/24/2000	18.36	17.72	17.96	0.21	96		9/24/2000	16.49	14.75	15.44	0.62	96	
7/25/2000	22.45	21.12	21.68	0.44	96		8/25/2000	18.68	17.88	18.27	0.29	96		9/25/2000	16.65	14.59	15.45	0.68	95	
7/26/2000	21.28	20.15	20.57	0.35	96		8/26/2000	18.85	18.20	18.49	0.22	96		9/26/2000	16.81	15.07	15.59	0.57	96	
7/27/2000	20.15	19.33	19.67	0.19	96		8/27/2000	19.50	17.72	18.34	0.52	96		9/27/2000	16.65	14.75	15.52	0.64	96	
7/28/2000	19.82	19.01	19.38	0.29	96		8/28/2000	18.85	18.20	18.44	0.20	96		9/28/2000	16.49	15.70	16.26	0.16	96	
7/29/2000	19.82	18.68	19.26	0.38	96		8/29/2000	18.85	17.40	18.02	0.46	96		9/29/2000	16.49	16.18	16.26	0.11	96	
7/30/2000	20.31	18.68	19.48	0.56	96		8/30/2000	17.88	17.08	17.45	0.30	96		9/30/2000	16.81	15.39	16.06	0.40	96	
7/31/2000	19.82	19.01	19.35	0.29	96		8/31/2000	17.56	17.08	17.26	0.15	96								
Jul-2000	Max	Min	Mean	Stdev	N		Aug-2000	Max	Min	Mean	Stdev	N		Sep-2000	Max	Min	Mean	Stdev	N	
Max	22.62	21.12	21.68	1.32	96.00		Max	21.28	19.66	20.42	0.69	96.00		Max	20.47	17.13	17.70	0.78	96.00	
Min	17.24	16.45	17.06	0.12	96.00		Min	17.56	17.08	17.26	0.12	95.00		Min	16.49	14.44	15.44	0.10	95.00	
Mean	19.71	18.21	18.88	0.51	96.00		Mean	19.76	18.56	19.07	0.41	95.97		Mean	17.36	15.89	16.48	0.45	95.93	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments: Sept 9 2000 change Tidbit 256406 for Tidbit 378647

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2000	15.86	14.91	15.41	0.30	96		11/1/2000	10.25	10.10	10.19	0.07	96		12/1/2000	6.85	6.69	6.80	0.08	96	
10/2/2000	16.02	14.75	15.30	0.39	96		11/2/2000	10.25	10.10	10.16	0.07	96		12/2/2000	7.00	6.85	6.85	0.02	96	
10/3/2000	16.02	15.07	15.34	0.33	96		11/3/2000	10.10	9.94	10.10	0.02	96		12/3/2000	6.85	6.54	6.71	0.09	96	
10/4/2000	15.86	14.59	15.07	0.39	96		11/4/2000	10.25	9.78	10.02	0.13	96		12/4/2000	6.69	6.38	6.56	0.06	96	
10/5/2000	15.54	13.82	14.53	0.51	96		11/5/2000	9.94	9.78	9.91	0.06	96		12/5/2000	6.69	6.38	6.47	0.12	96	
10/6/2000	14.91	13.36	13.98	0.44	96		11/6/2000	9.94	9.64	9.80	0.09	96		12/6/2000	6.54	6.22	6.43	0.10	96	
10/7/2000	14.13	13.05	13.58	0.37	96		11/7/2000	9.64	9.48	9.62	0.06	96		12/7/2000	6.69	6.38	6.53	0.08	96	
10/8/2000	14.29	13.66	13.95	0.22	96		11/8/2000	9.48	9.17	9.37	0.10	96		12/8/2000	6.54	6.22	6.38	0.08	96	
10/9/2000	14.13	13.82	14.00	0.11	96		11/9/2000	9.17	8.55	8.94	0.14	96		12/9/2000	6.22	5.91	6.03	0.12	96	
10/10/2000	14.44	13.51	13.79	0.31	96		11/10/2000	8.71	7.94	8.35	0.23	96		12/10/2000	5.91	5.44	5.65	0.14	96	
10/11/2000	14.29	13.20	13.54	0.32	96		11/11/2000	8.40	7.94	8.13	0.11	96		12/11/2000	5.44	5.29	5.42	0.05	96	
10/12/2000	14.44	12.74	13.48	0.67	96		11/12/2000	8.09	7.94	8.06	0.06	96		12/12/2000	5.44	5.13	5.22	0.09	96	
10/13/2000	14.13	13.98	14.05	0.07	96		11/13/2000	8.25	7.94	8.07	0.10	96		12/13/2000	5.29	4.98	5.14	0.12	96	
10/14/2000	14.59	13.51	13.86	0.31	96		11/14/2000	8.09	7.78	7.92	0.12	96		12/14/2000	5.13	4.35	4.74	0.23	96	
10/15/2000	13.51	12.89	13.18	0.17	96		11/15/2000	7.94	7.47	7.71	0.12	96		12/15/2000	4.51	4.04	4.33	0.12	96	
10/16/2000	12.89	12.58	12.71	0.10	96		11/16/2000	7.47	7.16	7.34	0.12	96		12/16/2000	4.35	3.10	3.72	0.40	96	
10/17/2000	12.58	12.27	12.42	0.11	96		11/17/2000	7.47	7.16	7.33	0.13	96		12/17/2000	4.98	4.35	4.72	0.18	96	
10/18/2000	12.74	12.27	12.48	0.15	96		11/18/2000	7.62	7.16	7.38	0.13	96		12/18/2000	4.98	4.82	4.88	0.08	96	
10/19/2000	12.43	11.34	11.94	0.28	96		11/19/2000	7.31	7.00	7.18	0.13	96		12/19/2000	4.98	4.51	4.84	0.13	96	
10/20/2000	11.65	11.19	11.41	0.17	96		11/20/2000	7.47	7.31	7.34	0.06	96		12/20/2000	4.51	4.51	4.51	0.00	96	
10/21/2000	11.65	11.34	11.50	0.10	96		11/21/2000	7.62	7.16	7.35	0.11	96		12/21/2000	4.51	4.35	4.42	0.08	96	
10/22/2000	11.49	11.19	11.25	0.09	96		11/22/2000	7.16	6.85	7.02	0.13	96		12/22/2000	4.51	4.35	4.43	0.08	96	
10/23/2000	11.19	10.56	10.93	0.14	96		11/23/2000	7.16	7.00	7.14	0.05	96		12/23/2000	4.51	4.51	4.51	0.00	96	
10/24/2000	11.19	10.88	10.98	0.09	96		11/24/2000	7.16	7.00	7.08	0.08	95		12/24/2000	4.67	4.51	4.53	0.05	96	
10/25/2000	11.19	10.88	11.01	0.12	96		11/25/2000	7.16	7.00	7.11	0.07	96		12/25/2000	4.67	4.51	4.57	0.08	96	
10/26/2000	11.03	10.72	10.94	0.08	96		11/26/2000	7.16	7.00	7.04	0.07	96		12/26/2000	4.67	4.51	4.62	0.07	96	
10/27/2000	10.72	10.56	10.69	0.06	96		11/27/2000	7.16	7.00	7.04	0.07	96		12/27/2000	4.67	4.35	4.54	0.07	96	
10/28/2000	10.72	10.41	10.59	0.07	96		11/28/2000	7.00	6.85	6.90	0.07	96		12/28/2000	4.51	4.35	4.39	0.07	96	
10/29/2000	10.56	10.41	10.54	0.05	100	Standard	11/29/2000	6.85	6.69	6.80	0.07	96		12/29/2000	4.51	4.35	4.35	0.02	96	
10/30/2000	10.72	10.41	10.47	0.10	96		11/30/2000	6.69	6.54	6.65	0.07	96		12/30/2000	4.51	4.35	4.38	0.05	96	
10/31/2000	10.56	10.25	10.34	0.10	95									12/31/2000	4.51	4.35	4.43	0.08	96	
Oct-2000	Max	Min	Mean	Stdev	N		Nov-2000	Max	Min	Mean	Stdev	N		Dec-2000	Max	Min	Mean	Stdev	N	
Max	16.02	15.07	15.41	0.67	100.00		Max	10.25	10.10	10.19	0.23	96.00		Max	7.00	6.85	6.85	0.40	96.00	
Min	10.56	10.25	10.34	0.05	95.00		Min	6.69	6.54	6.65	0.02	95.00		Min	4.35	3.10	3.72	0.00	96.00	
Mean	13.08	12.39	12.69	0.22	96.10		Mean	8.23	7.95	8.10	0.09	95.97		Mean	5.35	5.05	5.20	0.10	96.00	
N	31	31	31	31	31		N	30	30	30	30	30		N	31	31	31	31	31	

Comments: Oct 29 2000 change to Standard time

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2001	4.67	4.51	4.54	0.07	96		2/1/2001	4.35	4.20	4.26	0.07	96		3/1/2001	4.20	3.88	4.04	0.12	96	
1/2/2001	4.51	4.35	4.48	0.07	96		2/2/2001	4.35	4.20	4.30	0.07	96		3/2/2001	4.35	3.88	4.09	0.22	96	
1/3/2001	4.51	4.35	4.44	0.08	96		2/3/2001	4.35	4.04	4.21	0.11	96		3/3/2001	4.51	4.04	4.22	0.18	96	
1/4/2001	4.51	4.35	4.38	0.04	96		2/4/2001	4.20	4.04	4.19	0.05	96		3/4/2001	4.82	3.57	4.11	0.43	96	
1/5/2001	4.67	4.35	4.53	0.10	96		2/5/2001	4.35	3.88	4.10	0.12	96		3/5/2001	4.82	3.57	4.18	0.42	96	
1/6/2001	4.51	4.20	4.32	0.06	96		2/6/2001	4.04	3.73	3.82	0.12	96		3/6/2001	4.98	3.57	4.21	0.49	96	
1/7/2001	4.35	4.04	4.24	0.07	96		2/7/2001	4.04	3.73	3.84	0.12	96		3/7/2001	4.82	3.73	4.21	0.39	96	
1/8/2001	4.51	4.35	4.43	0.08	96		2/8/2001	3.88	3.42	3.73	0.16	96		3/8/2001	4.51	4.35	4.39	0.07	96	
1/9/2001	4.51	4.35	4.38	0.06	96		2/9/2001	4.35	3.88	4.01	0.16	96		3/9/2001	5.29	4.04	4.49	0.45	96	
1/10/2001	4.51	4.35	4.42	0.08	96		2/10/2001	4.20	3.88	4.02	0.10	96		3/10/2001	4.98	4.04	4.52	0.35	96	
1/11/2001	4.51	4.35	4.39	0.07	96		2/11/2001	4.20	3.57	3.85	0.19	96		3/11/2001	5.13	4.51	4.79	0.23	96	
1/12/2001	4.35	4.20	4.27	0.08	96		2/12/2001	4.20	3.42	3.78	0.27	96		3/12/2001	4.67	4.35	4.55	0.14	96	
1/13/2001	4.35	4.20	4.30	0.07	96		2/13/2001	4.35	3.73	3.94	0.23	96		3/13/2001	5.29	4.67	4.93	0.21	96	
1/14/2001	4.20	4.04	4.14	0.08	96		2/14/2001	4.04	3.73	3.85	0.13	96		3/14/2001	5.29	4.20	4.71	0.37	96	
1/15/2001	4.20	3.88	4.02	0.13	96		2/15/2001	4.04	3.26	3.56	0.23	96		3/15/2001	5.13	4.67	4.82	0.17	96	
1/16/2001	4.35	3.88	4.09	0.17	96		2/16/2001	3.88	3.10	3.49	0.31	96		3/16/2001	4.98	4.51	4.69	0.11	96	
1/17/2001	4.20	4.04	4.07	0.07	96		2/17/2001	4.20	3.57	3.86	0.21	96		3/17/2001	4.67	4.35	4.53	0.08	96	
1/18/2001	4.20	4.04	4.06	0.06	96		2/18/2001	3.88	3.73	3.83	0.07	96		3/18/2001	4.67	4.35	4.43	0.13	96	
1/19/2001	4.35	4.20	4.26	0.07	96		2/19/2001	4.51	3.57	3.87	0.30	96		3/19/2001	4.51	4.20	4.36	0.07	96	
1/20/2001	4.35	4.20	4.28	0.07	96		2/20/2001	4.35	3.57	3.87	0.29	96		3/20/2001	4.98	4.35	4.59	0.24	96	
1/21/2001	4.67	4.20	4.31	0.14	96		2/21/2001	4.67	3.57	3.98	0.41	96		3/21/2001	5.44	4.51	4.81	0.32	96	
1/22/2001	4.51	4.20	4.30	0.13	96		2/22/2001	4.67	3.73	4.12	0.28	96		3/22/2001	5.44	4.35	4.72	0.33	96	
1/23/2001	4.35	3.88	4.11	0.15	96		2/23/2001	4.35	3.88	4.05	0.18	96		3/23/2001	5.44	4.20	4.65	0.44	96	
1/24/2001	4.35	4.04	4.16	0.12	96		2/24/2001	4.35	3.42	3.77	0.30	96		3/24/2001	4.82	4.20	4.53	0.18	96	
1/25/2001	4.35	4.04	4.22	0.09	96		2/25/2001	3.88	3.26	3.57	0.20	96		3/25/2001	5.60	4.51	5.00	0.37	96	
1/26/2001	4.35	3.73	4.00	0.19	96		2/26/2001	4.35	3.26	3.77	0.39	96		3/26/2001	5.44	4.82	5.06	0.23	96	
1/27/2001	4.35	3.73	4.00	0.25	96		2/27/2001	4.51	3.57	3.97	0.38	96		3/27/2001	5.13	4.82	4.98	0.09	96	
1/28/2001	4.20	4.04	4.11	0.08	96		2/28/2001	4.82	4.04	4.31	0.28	96		3/28/2001	5.60	4.98	5.25	0.28	95	
1/29/2001	4.35	4.04	4.12	0.11	96									3/29/2001	5.60	5.13	5.29	0.12	96	
1/30/2001	4.20	4.04	4.12	0.08	96									3/30/2001	6.22	5.13	5.64	0.43	96	
1/31/2001	4.20	4.04	4.15	0.08	96									3/31/2001	5.91	5.44	5.72	0.12	96	
Jan-2001	Max	Min	Mean	Stdev	N		Feb-2001	Max	Min	Mean	Stdev	N		Mar-2001	Max	Min	Mean	Stdev	N	
Max	4.67	4.51	4.54	0.25	96.00		Max	4.82	4.20	4.31	0.41	96.00		Max	6.22	5.44	5.72	0.49	96.00	
Min	4.20	3.73	4.00	0.04	96.00		Min	3.88	3.10	3.49	0.05	96.00		Min	4.20	3.57	4.04	0.07	95.00	
Mean	4.39	4.13	4.24	0.10	96.00		Mean	4.26	3.68	3.92	0.20	96.00		Mean	5.07	4.35	4.66	0.25	95.97	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/2001	7.00	5.44	6.07	0.61	92	Daylight	5/1/2001	9.48	9.17	9.33	0.13	96		6/1/2001	13.51	12.58	12.98	0.35	96	
4/2/2001	7.31	5.44	6.38	0.45	96		5/2/2001	10.10	9.17	9.47	0.30	96		6/2/2001	13.51	12.43	12.87	0.37	96	
4/3/2001	6.38	5.13	5.57	0.43	96		5/3/2001	9.32	9.17	9.29	0.06	96		6/3/2001	14.29	12.58	13.33	0.65	96	
4/4/2001	6.85	4.98	5.82	0.79	96		5/4/2001	9.17	8.25	8.69	0.23	96		6/4/2001	15.07	12.58	13.68	0.88	96	
4/5/2001	7.00	6.07	6.69	0.23	96		5/5/2001	9.94	8.55	9.18	0.45	96		6/5/2001	15.07	14.59	14.82	0.14	96	
4/6/2001	7.78	6.07	6.83	0.72	96		5/6/2001	10.88	9.01	9.77	0.68	96		6/6/2001	14.75	14.13	14.46	0.12	96	
4/7/2001	9.01	7.47	8.06	0.56	96		5/7/2001	10.25	8.71	9.66	0.39	96		6/7/2001	14.13	12.89	13.39	0.34	96	
4/8/2001	8.86	5.76	7.62	0.82	96		5/8/2001	10.72	9.17	9.68	0.57	96		6/8/2001	13.36	13.05	13.23	0.14	96	
4/9/2001	8.25	5.60	7.09	0.99	96		5/9/2001	10.88	9.32	10.36	0.44	96		6/9/2001	14.44	13.05	13.72	0.47	96	
4/10/2001	8.71	5.76	7.67	0.74	96		5/10/2001	11.19	9.01	9.91	0.79	96		6/10/2001	13.98	12.89	13.51	0.26	96	
4/11/2001	6.54	4.82	5.60	0.54	96		5/11/2001	11.49	10.10	10.63	0.44	96		6/11/2001	14.44	12.74	13.48	0.61	96	
4/12/2001	6.54	5.91	6.24	0.18	96		5/12/2001	11.49	9.64	10.50	0.52	96		6/12/2001	15.23	13.66	14.51	0.38	96	
4/13/2001	7.78	6.22	6.93	0.65	96		5/13/2001	12.89	11.03	11.87	0.66	96		6/13/2001	13.98	13.36	13.65	0.23	96	
4/14/2001	8.86	7.16	7.88	0.68	96		5/14/2001	12.11	8.71	10.27	1.37	96		6/14/2001	15.23	13.66	14.48	0.52	96	
4/15/2001	10.72	8.09	9.15	1.04	96		5/15/2001	10.56	8.86	10.11	0.56	96		6/15/2001	15.86	14.75	15.32	0.34	96	
4/16/2001	9.94	8.40	8.83	0.44	96		5/16/2001	11.19	10.41	10.68	0.28	96		6/16/2001	15.39	14.13	14.61	0.43	96	
4/17/2001	9.01	8.09	8.60	0.30	96		5/17/2001	10.88	10.25	10.56	0.20	96		6/17/2001	16.34	14.29	15.08	0.76	96	
4/18/2001	8.55	7.78	8.08	0.21	96		5/18/2001	11.80	10.10	10.97	0.52	96		6/18/2001	17.93	14.75	16.60	1.04	96	
4/19/2001	8.71	7.62	8.06	0.36	96		5/19/2001	11.96	10.72	11.20	0.44	96		6/19/2001	17.45	15.23	16.02	0.64	96	
4/20/2001	9.17	7.47	8.07	0.63	96		5/20/2001	11.80	10.25	11.21	0.38	96		6/20/2001	17.45	15.86	16.62	0.51	96	
4/21/2001	9.17	7.62	8.18	0.54	96		5/21/2001	11.65	10.25	11.16	0.35	96		6/21/2001	16.49	14.75	15.88	0.59	96	
4/22/2001	9.17	8.09	8.46	0.41	96		5/22/2001	11.49	9.94	10.61	0.48	96		6/22/2001	17.29	14.91	16.26	0.79	96	
4/23/2001	9.32	7.78	8.94	0.49	96		5/23/2001	11.49	8.86	10.47	0.70	96		6/23/2001	17.77	16.18	16.86	0.53	96	
4/24/2001	9.64	9.01	9.23	0.19	96		5/24/2001	11.80	8.86	10.52	0.90	96		6/24/2001	17.77	16.81	17.29	0.31	96	
4/25/2001	9.64	6.22	8.61	1.34	96		5/25/2001	12.58	10.25	11.25	0.76	96		6/25/2001	17.93	16.65	17.24	0.42	96	
4/26/2001	8.55	7.62	8.09	0.28	96		5/26/2001	11.80	10.41	11.55	0.31	96		6/26/2001	18.09	16.97	17.49	0.45	96	
4/27/2001	9.48	8.55	9.10	0.34	96		5/27/2001	12.43	11.80	12.18	0.18	96		6/27/2001	18.09	16.65	17.13	0.43	96	
4/28/2001	10.25	9.32	9.71	0.37	96		5/28/2001	12.58	11.80	12.17	0.27	96		6/28/2001	17.93	16.49	16.99	0.51	96	
4/29/2001	9.64	8.86	9.23	0.28	96		5/29/2001	13.82	12.11	12.97	0.68	96		6/29/2001	17.61	16.49	17.04	0.37	96	
4/30/2001	9.94	9.17	9.48	0.24	96		5/30/2001	13.66	13.05	13.30	0.17	95		6/30/2001	19.87	15.86	17.41	1.37	96	
							5/31/2001	13.20	12.89	13.00	0.09	96								

Apr-2001	Max	Min	Mean	Stdev	N
Max	10.72	9.32	9.71	1.34	96.00
Min	6.38	4.82	5.57	0.18	92.00
Mean	8.59	7.05	7.81	0.53	95.87
N	30	30	30	30	30

May-2001	Max	Min	Mean	Stdev	N
Max	13.82	13.05	13.30	1.37	96.00
Min	9.17	8.25	8.69	0.06	95.00
Mean	11.44	9.99	10.73	0.46	95.97
N	31	31	31	31	31

Jun-2001	Max	Min	Mean	Stdev	N
Max	19.87	16.97	17.49	1.37	96.00
Min	13.36	12.43	12.87	0.12	96.00
Mean	16.01	14.50	15.20	0.50	96.00
N	30	30	30	30	30

Comments: April 1st 2001 change to daylight saving time

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2001	20.52	19.07	19.64	0.41	96		8/1/2001	19.07	17.77	18.42	0.41	96		9/1/2001	18.25	17.61	17.78	0.20	96	
7/2/2001	20.52	17.45	19.82	0.82	96		8/2/2001	17.77	17.45	17.63	0.14	96		9/2/2001	17.93	17.29	17.51	0.17	96	
7/3/2001	18.42	17.13	17.68	0.44	96		8/3/2001	17.77	17.13	17.38	0.14	96		9/3/2001	17.61	16.97	17.21	0.21	96	
7/4/2001	20.03	17.13	18.39	1.02	96		8/4/2001	17.13	16.81	16.88	0.09	96		9/4/2001	17.13	16.34	16.74	0.19	96	
7/5/2001	20.52	17.93	19.39	0.86	96		8/5/2001	16.81	16.18	16.50	0.20	96		9/5/2001	16.97	16.18	16.47	0.27	96	
7/6/2001	20.03	18.74	19.45	0.33	96		8/6/2001	16.81	16.18	16.48	0.26	96		9/6/2001	17.61	16.34	16.98	0.48	96	
7/7/2001	18.74	17.61	18.03	0.34	96		8/7/2001	17.45	16.34	16.73	0.38	96		9/7/2001	18.09	16.97	17.35	0.32	96	
7/8/2001	19.07	17.77	18.28	0.49	96		8/8/2001	17.93	16.34	16.85	0.55	96		9/8/2001	17.13	16.34	16.66	0.24	96	
7/9/2001	18.74	16.97	17.79	0.68	96		8/9/2001	17.93	16.49	17.08	0.55	96		9/9/2001	16.97	16.02	16.37	0.27	96	
7/10/2001	18.25	16.81	17.39	0.40	96		8/10/2001	18.90	17.13	17.84	0.63	96		9/10/2001	17.13	16.18	16.48	0.33	96	
7/11/2001	18.74	16.97	17.77	0.69	96		8/11/2001	19.07	17.77	18.13	0.45	96		9/11/2001	17.61	15.86	16.56	0.67	96	
7/12/2001	18.74	17.77	18.21	0.36	96		8/12/2001	19.23	17.29	18.11	0.68	96		9/12/2001	17.61	16.18	17.04	0.37	96	
7/13/2001	18.42	16.97	17.67	0.47	96		8/13/2001	19.23	17.61	18.36	0.45	96		9/13/2001	16.65	15.70	16.04	0.32	96	
7/14/2001	18.74	17.77	18.17	0.36	96		8/14/2001	19.07	17.13	17.93	0.63	94		9/14/2001	17.13	16.02	16.36	0.35	96	
7/15/2001	18.58	18.09	18.24	0.16	96		8/15/2001	19.23	17.93	18.35	0.47	96		9/15/2001	17.13	16.02	16.42	0.37	96	
7/16/2001	18.74	18.09	18.36	0.25	96		8/16/2001	20.19	18.42	19.08	0.55	96		9/16/2001	16.65	15.86	16.23	0.22	96	
7/17/2001	18.58	17.93	18.25	0.19	96		8/17/2001	21.01	18.74	19.75	0.82	96		9/17/2001	17.13	16.02	16.58	0.46	96	
7/18/2001	18.58	17.93	18.24	0.25	96		8/18/2001	21.18	20.36	20.71	0.27	96		9/18/2001	17.61	16.81	17.13	0.28	96	
7/19/2001	19.07	17.93	18.44	0.36	96		8/19/2001	20.68	19.39	19.94	0.39	96		9/19/2001	17.61	16.81	17.17	0.26	95	
7/20/2001	18.90	17.93	18.35	0.35	96		8/20/2001	19.87	18.74	19.28	0.38	96		9/20/2001	17.13	16.49	16.80	0.14	96	
7/21/2001	18.74	17.13	17.92	0.54	96		8/21/2001	19.39	18.42	18.78	0.28	96		9/21/2001	16.49	16.02	16.17	0.13	96	
7/22/2001	19.87	17.61	18.57	0.87	96		8/22/2001	18.42	18.09	18.27	0.13	96		9/22/2001	16.34	16.18	16.22	0.07	96	
7/23/2001	19.71	18.58	19.16	0.35	96		8/23/2001	18.25	17.61	17.89	0.16	96		9/23/2001	16.81	15.39	16.12	0.36	96	
7/24/2001	20.36	18.42	19.30	0.74	96		8/24/2001	17.77	17.45	17.60	0.12	96		9/24/2001	18.09	15.23	16.42	1.08	96	
7/25/2001	20.36	19.07	19.87	0.32	96		8/25/2001	17.45	16.81	17.15	0.16	96		9/25/2001	17.61	16.81	17.15	0.20	96	
7/26/2001	19.07	18.09	18.52	0.32	96		8/26/2001	19.07	16.34	17.26	0.89	96		9/26/2001	16.81	15.86	16.16	0.25	96	
7/27/2001	18.42	17.77	18.08	0.26	96		8/27/2001	19.39	16.81	18.27	0.88	96		9/27/2001	16.18	15.54	15.79	0.19	96	
7/28/2001	18.74	18.25	18.47	0.20	96		8/28/2001	17.29	16.65	16.85	0.24	96		9/28/2001	15.54	14.75	15.20	0.14	96	
7/29/2001	19.23	18.25	18.72	0.37	96		8/29/2001	17.61	16.81	17.05	0.27	96		9/29/2001	14.91	14.59	14.73	0.11	96	
7/30/2001	18.90	17.77	18.08	0.29	96		8/30/2001	17.13	16.81	16.91	0.11	96		9/30/2001	14.91	14.29	14.69	0.16	96	
7/31/2001	19.23	17.29	18.04	0.71	96		8/31/2001	18.25	16.81	17.63	0.37	96								

Jul-2001	Max	Min	Mean	Stdev	N	Aug-2001	Max	Min	Mean	Stdev	N	Sep-2001	Max	Min	Mean	Stdev	N
Max	20.52	19.07	19.87	1.02	96.00	Max	21.18	20.36	20.71	0.89	96.00	Max	18.25	17.61	17.78	1.08	96.00
Min	18.25	16.81	17.39	0.16	96.00	Min	16.81	16.18	16.48	0.09	94.00	Min	14.91	14.29	14.69	0.07	95.00
Mean	19.18	17.81	18.46	0.46	96.00	Mean	18.59	17.41	17.91	0.39	95.94	Mean	17.03	16.09	16.49	0.29	95.97
N	31	31	31	31	31	N	31	31	31	31	31	N	30	30	30	30	30

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2001	14.91	14.13	14.32	0.23	96		11/1/2001							12/1/2001	6.38	6.07	6.16	0.09	96	
10/2/2001	14.59	14.13	14.27	0.17	96		11/2/2001							12/2/2001	6.38	6.07	6.17	0.09	96	
10/3/2001	14.75	14.13	14.38	0.17	96		11/3/2001							12/3/2001	6.07	5.91	5.94	0.06	96	
10/4/2001	15.39	13.86	14.27	0.59	96		11/4/2001							12/4/2001	5.91	5.91	5.91	0.00	96	
10/5/2001	14.29	13.51	13.93	0.24	96		11/5/2001							12/5/2001	5.91	5.76	5.88	0.06	96	
10/6/2001	14.44	13.66	13.98	0.30	96		11/6/2001							12/6/2001	5.91	5.60	5.76	0.06	96	
10/7/2001	14.13	13.66	13.90	0.10	96		11/7/2001							12/7/2001	5.76	5.76	5.76	0.00	96	
10/8/2001	13.66	13.51	13.61	0.07	96		11/8/2001							12/8/2001	5.91	5.76	5.87	0.07	96	
10/9/2001	13.82	13.51	13.59	0.11	96		11/9/2001							12/9/2001	5.76	5.60	5.65	0.08	96	
10/10/2001	13.51	12.74	13.02	0.20	96		11/10/2001							12/10/2001	5.76	5.60	5.67	0.08	96	
10/11/2001	13.05	12.74	12.86	0.09	96		11/11/2001							12/11/2001	5.76	5.60	5.65	0.08	96	
10/12/2001	12.74	12.43	12.50	0.10	96		11/12/2001							12/12/2001	5.60	5.29	5.5	0.09	96	
10/13/2001	12.43	12.11	12.26	0.08	96		11/13/2001							12/13/2001	5.60	5.44	5.54	0.08	96	
10/14/2001	12.43	11.85	12.01	0.19	96		11/14/2001							12/14/2001	5.60	5.29	5.41	0.09	96	
10/15/2001	11.80	11.49	11.63	0.11	96		11/15/2001							12/15/2001	5.44	5.29	5.41	0.06	96	
10/16/2001	11.80	11.49	11.65	0.14	96		11/16/2001							12/16/2001	5.60	5.44	5.51	0.08	96	
10/17/2001	11.80	11.49	11.67	0.10	96		11/17/2001							12/17/2001	5.44	5.29	5.36	0.08	96	
10/18/2001	11.49	11.49	11.49	0.00	46	data failure	11/18/2001							12/18/2001	5.29	5.29	5.29	0.00	96	
							11/19/2001							12/19/2001	5.29	5.13	5.26	0.06	96	
							11/20/2001	8.09	7.94	8.00	0.07	54	restart	12/20/2001	5.13	4.82	4.99	0.08	96	
							11/21/2001	8.09	7.78	7.95	0.06	96		12/21/2001	4.98	4.67	4.85	0.12	96	
							11/22/2001	7.94	7.78	7.82	0.07	96		12/22/2001	4.98	4.82	4.90	0.08	96	
							11/23/2001	7.94	7.78	7.81	0.06	96		12/23/2001	4.98	4.82	4.89	0.08	96	
							11/24/2001	7.78	7.47	7.58	0.07	96		12/24/2001	5.13	4.82	4.95	0.07	96	
							11/25/2001	7.62	7.47	7.55	0.08	96		12/25/2001	4.82	4.51	4.69	0.07	96	
							11/26/2001	7.62	7.31	7.48	0.07	96		12/26/2001	4.67	4.51	4.58	0.08	96	
							11/27/2001	7.47	7.31	7.35	0.07	96		12/27/2001	4.67	4.51	4.65	0.05	96	
							11/28/2001	7.31	7.00	7.11	0.13	96		12/28/2001	4.82	4.67	4.74	0.08	96	
							11/29/2001	7.16	6.85	6.91	0.08	96		12/29/2001	4.82	4.67	4.74	0.07	96	
							11/30/2001	6.85	6.22	6.62	0.18	96		12/30/2001	4.82	4.51	4.61	0.09	96	
														12/31/2001	4.67	4.35	4.57	0.11	96	

Oct-2001	Max	Min	Mean	Stdev	N
Max	15.39	14.13	14.38	0.59	96.00
Min	11.49	11.49	11.49	0.00	46.00
Mean	13.39	12.86	13.07	0.17	93.22
N	18	18	18	18	18

Nov-2001	Max	Min	Mean	Stdev	N
Max	8.09	7.94	8.00	0.18	96.00
Min	6.85	6.22	6.62	0.06	54.00
Mean	7.62	7.36	7.47	0.09	92.16
N	11	11	11	11	11

Dec-2001	Max	Min	Mean	Stdev	N
Max	6.38	6.07	6.17	0.12	96.00
Min	4.67	4.35	4.57	0.00	96.00
Mean	5.42	5.22	5.32	0.07	96.00
N	31	31	31	31	31

Comments: October 18 2001 Temperature logger failed to restart
November 20 2001 Temperature logger restarted

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2002	4.67	4.51	4.59	0.08	96		2/1/2002	4.20	4.04	4.08	0.07	96		3/1/2002	4.51	3.73	4.02	0.29	96	
1/2/2002	4.98	4.51	4.73	0.20	96		2/2/2002	4.20	4.04	4.11	0.06	96		3/2/2002	4.67	3.73	4.12	0.32	96	
1/3/2002	4.98	4.82	4.88	0.08	96		2/3/2002	4.51	4.20	4.27	0.11	96		3/3/2002	4.82	4.04	4.31	0.28	96	
1/4/2002	4.82	4.67	4.79	0.06	96		2/4/2002	4.20	4.04	4.13	0.06	96		3/4/2002	4.35	4.04	4.25	0.08	96	
1/5/2002	4.98	4.67	4.76	0.10	96		2/5/2002	4.35	4.20	4.25	0.07	96		3/5/2002	4.35	3.57	3.96	0.21	96	
1/6/2002	5.13	4.98	4.99	0.05	96		2/6/2002	4.35	4.20	4.22	0.05	96		3/6/2002	3.57	2.95	3.25	0.17	96	
1/7/2002	5.13	4.98	5.06	0.08	96		2/7/2002	4.20	4.04	4.11	0.08	96		3/7/2002	3.42	2.95	3.12	0.18	96	
1/8/2002	4.98	4.82	4.97	0.04	96		2/8/2002	4.35	4.04	4.15	0.12	96		3/8/2002	3.73	2.78	3.21	0.38	96	
1/9/2002	4.98	4.82	4.94	0.07	96		2/9/2002	4.35	4.04	4.15	0.11	96		3/9/2002	3.42	2.95	3.26	0.11	96	
1/10/2002	4.82	4.82	4.82	0.00	96		2/10/2002	4.20	4.04	4.16	0.07	96		3/10/2002	3.42	2.95	3.12	0.17	96	
1/11/2002	4.98	4.82	4.84	0.06	96		2/11/2002	4.35	3.88	4.05	0.13	96		3/11/2002	4.04	3.42	3.72	0.24	96	
1/12/2002	4.98	4.82	4.96	0.06	96		2/12/2002	4.20	3.73	3.96	0.17	96		3/12/2002	3.88	3.57	3.74	0.08	96	
1/13/2002	4.82	4.67	4.80	0.05	96		2/13/2002	4.35	3.88	4.08	0.18	96		3/13/2002	4.35	3.57	3.86	0.27	96	
1/14/2002	4.82	4.67	4.72	0.07	96		2/14/2002	4.35	3.88	4.06	0.18	96		3/14/2002	4.04	3.57	3.78	0.17	96	
1/15/2002	4.82	4.67	4.69	0.05	96		2/15/2002	4.35	3.73	3.99	0.21	96		3/15/2002	4.04	3.42	3.70	0.20	96	
1/16/2002	4.82	4.67	4.71	0.07	96		2/16/2002	4.04	3.88	3.97	0.08	96		3/16/2002	3.88	3.26	3.47	0.22	96	
1/17/2002	4.67	4.51	4.59	0.08	96		2/17/2002	4.20	4.04	4.08	0.07	96		3/17/2002	4.04	2.95	3.37	0.38	96	
1/18/2002	4.67	4.51	4.65	0.05	96		2/18/2002	4.35	3.88	4.09	0.16	96		3/18/2002	3.42	2.95	3.20	0.11	96	
1/19/2002	4.67	4.35	4.57	0.08	96		2/19/2002	4.35	4.20	4.27	0.08	96		3/19/2002	3.73	2.95	3.30	0.30	96	
1/20/2002	4.51	4.35	4.46	0.07	96		2/20/2002	4.51	4.04	4.19	0.14	96		3/20/2002	3.73	2.62	3.16	0.35	96	
1/21/2002	4.67	4.35	4.53	0.12	96		2/21/2002	4.20	4.04	4.04	0.02	96		3/21/2002	3.57	3.10	3.35	0.15	96	
1/22/2002	4.51	4.20	4.38	0.11	96		2/22/2002	4.51	4.04	4.15	0.15	96		3/22/2002	4.04	3.26	3.61	0.29	96	
1/23/2002	4.20	3.88	4.13	0.11	96		2/23/2002	4.20	3.73	3.89	0.16	96		3/23/2002	4.04	3.57	3.78	0.18	96	
1/24/2002	4.35	4.20	4.32	0.06	96		2/24/2002	4.20	3.57	3.77	0.21	96		3/24/2002	4.20	3.42	3.78	0.32	96	
1/25/2002	4.35	4.04	4.20	0.10	96		2/25/2002	4.20	3.57	3.82	0.21	96		3/25/2002	4.51	3.57	4.03	0.30	96	
1/26/2002	4.20	3.88	4.09	0.08	96		2/26/2002	4.35	3.73	3.95	0.23	96		3/26/2002	4.51	4.04	4.22	0.15	96	
1/27/2002	4.04	3.73	3.82	0.10	96		2/27/2002	4.51	3.88	4.09	0.24	96		3/27/2002	4.04	3.73	3.82	0.09	96	
1/28/2002	3.88	3.42	3.67	0.14	96		2/28/2002	4.51	3.73	4.00	0.24	96		3/28/2002	4.35	3.57	3.96	0.30	96	
1/29/2002	3.88	3.57	3.74	0.14	96									3/29/2002	4.04	3.73	3.87	0.12	96	
1/30/2002	3.88	3.88	3.88	0.00	96									3/30/2002	4.35	3.73	3.96	0.22	96	
1/31/2002	4.04	3.88	3.96	0.08	96									3/31/2002	4.04	3.88	3.94	0.08	96	
Jan-2002	Max	Min	Mean	Stdev	N		Feb-2002	Max	Min	Mean	Stdev	N		Mar-2002	Max	Min	Mean	Stdev	N	
Max	5.13	4.98	5.06	0.20	96.00		Max	4.51	4.20	4.27	0.24	96.00		Max	4.82	4.04	4.31	0.38	96.00	
Min	3.88	3.42	3.67	0.00	96.00		Min	4.04	3.57	3.77	0.02	96.00		Min	3.42	2.62	3.12	0.06	96.00	
Mean	4.62	4.40	4.52	0.08	96.00		Mean	4.31	3.94	4.07	0.13	96.00		Mean	4.03	3.40	3.68	0.22	96.00	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/2002	4.67	3.73	4.02	0.33	96		5/1/2002	10.10	6.54	8.57	1.01	96		6/1/2002	14.59	11.65	13.37	0.88	96	
4/2/2002	4.67	3.73	4.10	0.35	96		5/2/2002	13.05	8.71	11.69	1.31	96		6/2/2002	15.39	12.43	14.24	0.82	96	
4/3/2002	4.82	3.73	4.25	0.36	96		5/3/2002	12.27	9.78	10.65	0.80	96		6/3/2002	16.49	13.05	14.79	1.24	96	
4/4/2002	5.13	3.88	4.39	0.42	96		5/4/2002	10.56	9.94	10.21	0.22	96		6/4/2002	16.34	14.29	15.77	0.72	96	
4/5/2002	4.35	4.04	4.18	0.13	96		5/5/2002	10.72	9.94	10.28	0.30	96		6/5/2002	16.34	14.13	15.47	0.79	96	
4/6/2002	4.35	4.04	4.25	0.09	96		5/6/2002	10.56	7.62	9.65	0.78	96		6/6/2002	16.02	14.59	15.59	0.34	96	
4/7/2002	5.29	3.88	4.41	0.48	92	Daylight	5/7/2002	9.32	7.16	8.00	0.79	96		6/7/2002	16.49	14.59	15.39	0.70	96	
4/8/2002	4.67	4.04	4.24	0.21	96		5/8/2002	9.32	7.78	8.47	0.58	96		6/8/2002	16.65	13.05	15.71	0.77	96	
4/9/2002	4.35	4.04	4.23	0.11	96		5/9/2002	11.96	8.71	9.95	1.21	96		6/9/2002	14.75	11.49	13.44	0.99	96	
4/10/2002	4.67	4.20	4.38	0.20	96		5/10/2002	11.96	9.78	10.63	0.78	96		6/10/2002	15.54	13.36	14.35	0.80	96	
4/11/2002	4.67	4.35	4.55	0.08	96		5/11/2002	12.43	9.17	10.42	1.04	96		6/11/2002	16.18	12.74	14.84	0.87	96	
4/12/2002	4.67	4.51	4.59	0.08	96		5/12/2002	12.27	8.25	10.03	1.56	96		6/12/2002	16.18	12.43	14.86	1.14	96	
4/13/2002	4.82	4.51	4.69	0.07	96		5/13/2002	14.13	11.49	13.09	0.95	96		6/13/2002	18.42	14.91	16.34	1.37	96	
4/14/2002	4.67	4.20	4.46	0.14	96		5/14/2002	14.44	13.05	13.72	0.47	96		6/14/2002	19.23	16.49	17.68	0.90	96	
4/15/2002	4.98	4.20	4.57	0.27	96		5/15/2002	14.29	11.96	13.44	0.55	96		6/15/2002	19.55	17.93	18.80	0.49	96	
4/16/2002	5.29	4.67	4.87	0.21	96		5/16/2002	11.96	9.94	10.86	0.60	96		6/16/2002	19.39	17.13	18.26	0.79	96	
4/17/2002	5.76	4.67	5.12	0.36	96		5/17/2002	12.74	11.19	11.97	0.61	96		6/17/2002	19.39	18.56	18.94	0.19	96	
4/18/2002	6.22	4.67	5.30	0.54	96		5/18/2002	13.98	11.80	12.74	0.80	96		6/18/2002	18.56	17.93	18.28	0.19	96	
4/19/2002	6.07	5.13	5.47	0.26	96		5/19/2002	14.59	12.74	13.75	0.52	96		6/19/2002	18.74	17.61	18.11	0.41	96	
4/20/2002	7.47	5.29	6.43	0.73	96		5/20/2002	13.98	12.89	13.44	0.34	96		6/20/2002	18.09	16.81	17.39	0.43	96	
4/21/2002	9.94	6.69	8.49	1.20	96		5/21/2002	14.75	13.66	14.18	0.37	96		6/21/2002	18.09	16.02	17.00	0.71	96	
4/22/2002	9.32	8.25	8.64	0.26	96		5/22/2002	15.07	14.29	14.63	0.21	96		6/22/2002	18.42	16.81	17.42	0.50	96	
4/23/2002	8.40	6.69	7.68	0.61	96		5/23/2002	15.39	13.20	14.22	0.78	96		6/23/2002	18.90	18.42	18.70	0.16	96	
4/24/2002	9.17	5.76	7.81	1.08	96		5/24/2002	14.44	13.20	13.81	0.39	96		6/24/2002	18.74	17.77	18.47	0.26	96	
4/25/2002	8.25	6.54	7.51	0.43	96		5/25/2002	13.51	12.11	13.14	0.51	96		6/25/2002	17.77	16.49	17.35	0.34	96	
4/26/2002	11.19	6.54	9.52	1.54	96		5/26/2002	13.82	12.27	13.12	0.43	96		6/26/2002	16.97	16.49	16.81	0.17	96	
4/27/2002	11.49	7.78	10.05	0.87	96		5/27/2002	13.36	12.89	13.01	0.12	96		6/27/2002	16.97	16.65	16.83	0.13	96	
4/28/2002	12.11	7.31	9.14	1.58	96		5/28/2002	12.89	11.49	12.35	0.48	96		6/28/2002	16.81	16.49	16.66	0.07	96	
4/29/2002	9.94	6.22	8.69	0.90	96		5/29/2002	13.98	12.74	13.18	0.44	96		6/29/2002	17.29	16.34	16.74	0.40	96	
4/30/2002	10.25	5.44	7.67	1.79	96		5/30/2002	14.91	13.36	14.24	0.43	96		6/30/2002	17.45	16.65	16.98	0.23	96	
							5/31/2002	14.44	12.43	13.49	0.58	96								
Apr-2002	Max	Min	Mean	Stdev	N		May-2002	Max	Min	Mean	Stdev	N		Jun-2002	Max	Min	Mean	Stdev	N	
Max	12.11	8.25	10.05	1.79	96.00		Max	15.39	14.29	14.63	1.56	96.00		Max	19.55	18.56	18.94	1.37	96.00	
Min	4.35	3.73	4.02	0.07	92.00		Min	9.32	6.54	8.00	0.12	96.00		Min	14.59	11.49	13.37	0.07	96.00	
Mean	6.72	5.09	5.92	0.52	95.87		Mean	12.94	10.97	11.96	0.64	96.00		Mean	17.33	15.44	16.49	0.59	96.00	
N	30	30	30	30	30		N	31	31	31	31	31		N	30	30	30	30	30	

Comments: April 7 2002 Change to Daylight Saving Time

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378647

Temperature Correction Factor
Calibration Date 24-Aug-00
a= 0.04537537
b= 0.99790465

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2002	17.29	16.49	16.95	0.24	96		8/1/2002	19.71	18.56	19.24	0.35	96		9/1/2002	19.87	18.90	19.25	0.32	96	
7/2/2002	17.13	16.18	16.68	0.32	96		8/2/2002	19.71	18.74	19.22	0.31	96		9/2/2002	19.71	18.58	19.07	0.40	96	
7/3/2002	16.97	16.18	16.56	0.31	96		8/3/2002	19.71	18.09	18.70	0.58	96		9/3/2002	19.39	18.25	18.81	0.39	96	
7/4/2002	17.45	16.49	16.93	0.36	96		8/4/2002	19.07	18.25	18.59	0.30	96		9/4/2002	19.55	17.93	18.67	0.51	96	
7/5/2002	18.42	17.13	17.68	0.52	96		8/5/2002	19.07	18.42	18.72	0.23	96		9/5/2002	19.39	17.29	18.19	0.68	96	
7/6/2002	19.07	17.13	17.99	0.53	96		8/6/2002	19.07	18.25	18.63	0.30	96		9/6/2002	18.42	17.45	17.87	0.36	96	
7/7/2002	16.97	16.34	16.63	0.22	96		8/7/2002	20.03	18.25	18.98	0.68	96		9/7/2002	18.90	17.13	17.91	0.60	96	
7/8/2002	17.29	16.81	16.99	0.15	96		8/8/2002	19.71	18.42	18.82	0.30	96		9/8/2002	18.09	17.13	17.58	0.25	96	
7/9/2002	18.90	16.97	17.76	0.67	96		8/9/2002	18.90	18.42	18.59	0.14	96		9/9/2002	17.13	16.65	16.97	0.16	96	
7/10/2002	18.42	16.81	17.46	0.55	96		8/10/2002	19.39	18.09	18.65	0.48	96		9/10/2002	18.09	16.65	17.16	0.46	96	
7/11/2002	18.42	16.81	17.45	0.56	96		8/11/2002	19.39	17.93	18.48	0.48	96		9/11/2002	18.25	16.65	17.18	0.51	96	
7/12/2002	18.90	17.13	17.85	0.64	96		8/12/2002	19.55	17.61	18.36	0.72	96		9/12/2002	17.93	16.02	16.77	0.59	96	
7/13/2002	17.93	17.13	17.51	0.32	96		8/13/2002	19.55	17.61	18.53	0.65	95		9/13/2002	17.93	16.18	16.82	0.57	96	
7/14/2002	19.07	17.29	17.99	0.68	96		8/14/2002	20.19	18.09	19.09	0.52	96		9/14/2002	17.93	16.18	16.89	0.53	96	
7/15/2002	18.58	18.09	18.35	0.19	96		8/15/2002	19.07	18.09	18.46	0.36	96		9/15/2002	17.61	16.81	17.23	0.31	96	
7/16/2002	18.90	17.93	18.47	0.25	96		8/16/2002	20.03	18.09	18.74	0.68	96		9/16/2002	18.90	17.29	17.78	0.51	96	
7/17/2002	18.09	17.13	17.65	0.35	96		8/17/2002	20.03	17.93	18.77	0.76	96		9/17/2002	18.42	16.81	17.45	0.49	96	
7/18/2002	18.42	17.61	18.10	0.20	96		8/18/2002	19.55	18.90	19.23	0.20	96		9/18/2002	16.77	16.14	16.48	0.21	95	
7/19/2002	18.58	17.29	17.91	0.48	96		8/19/2002	19.71	18.58	18.95	0.38	96		9/19/2002	17.45	16.65	16.91	0.31	96	
7/20/2002	19.07	17.77	18.34	0.45	96		8/20/2002	19.39	18.42	18.72	0.33	96		9/20/2002	17.45	16.18	16.70	0.39	96	
7/21/2002	19.07	17.45	18.25	0.48	96		8/21/2002	19.87	18.09	18.78	0.50	96		9/21/2002	16.81	15.70	16.15	0.33	96	
7/22/2002	19.39	17.29	18.29	0.75	96		8/22/2002	20.03	17.93	18.72	0.66	96		9/22/2002	16.49	15.23	15.75	0.39	96	
7/23/2002	19.71	17.93	18.80	0.68	96		8/23/2002	20.19	18.09	18.87	0.71	96		9/23/2002	15.86	15.39	15.61	0.15	96	
7/24/2002	20.19	18.58	19.31	0.59	96		8/24/2002	20.03	18.42	18.91	0.56	96		9/24/2002	16.18	15.23	15.58	0.28	96	
7/25/2002	20.36	18.58	19.38	0.64	96		8/25/2002	20.36	18.42	19.25	0.72	96		9/25/2002	16.34	15.23	15.59	0.37	96	
7/26/2002	21.18	19.39	20.18	0.69	96		8/26/2002	21.18	19.23	19.95	0.69	96		9/26/2002	16.02	15.23	15.57	0.22	96	
7/27/2002	21.34	19.55	20.50	0.49	96		8/27/2002	21.34	19.23	20.05	0.72	96		9/27/2002	16.49	15.39	15.73	0.36	96	
7/28/2002	20.52	19.23	19.88	0.46	96		8/28/2002	20.68	19.23	19.86	0.47	96		9/28/2002	15.70	15.23	15.47	0.09	96	
7/29/2002	20.52	19.55	20.05	0.31	96		8/29/2002	19.39	18.90	19.10	0.13	96		9/29/2002	15.86	14.91	15.29	0.29	96	
7/30/2002	20.52	19.07	19.79	0.53	96		8/30/2002	20.36	18.74	19.27	0.50	96		9/30/2002	15.86	14.75	15.25	0.33	96	
7/31/2002	20.52	19.39	19.90	0.36	96		8/31/2002	19.39	18.74	18.98	0.29	96								
Jul-2002	Max	Min	Mean	Stdev	N		Aug-2002	Max	Min	Mean	Stdev	N		Sep-2002	Max	Min	Mean	Stdev	N	
Max	21.34	19.55	20.50	0.75	96.00		Max	21.34	19.23	20.05	0.76	96.00		Max	19.87	18.90	19.25	0.68	96.00	
Min	16.97	16.18	16.56	0.15	96.00		Min	18.90	17.61	18.36	0.13	95.00		Min	15.70	14.75	15.25	0.09	95.00	
Mean	18.94	17.84	18.24	0.45	96.00		Mean	19.80	18.38	18.94	0.48	95.97		Mean	17.03	16.44	16.82	0.38	95.97	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger: Onset Tidbit 378647
Temperature Correction Factor
Calibration Date: 24-Aug-00
a= 0.04537537
b= 0.99790465

Temperature Logger: Onset Tidbit 292786
Calibration Date: 9-Oct-02
a= 0.086771193
b= 0.99588927

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2002	15.19	14.39	14.69	0.25	96		11/1/2002	10.52	9.58	9.98	0.32	96		12/1/2002	7.68	7.22	7.41	0.19	96	
10/2/2002	14.55	14.24	14.34	0.11	96		11/2/2002	10.36	9.43	9.79	0.33	96		12/2/2002	7.68	7.53	7.65	0.05	96	
10/3/2002	14.55	14.09	14.33	0.18	96		11/3/2002	10.21	9.27	9.65	0.30	96		12/3/2002	7.53	7.37	7.45	0.08	96	
10/4/2002	14.39	14.24	14.30	0.08	96		11/4/2002	9.74	8.96	9.39	0.26	96		12/4/2002	7.53	7.53	7.53	0.00	96	
10/5/2002	14.39	14.09	14.22	0.14	96		11/5/2002	9.58	9.43	9.53	0.07	96		12/5/2002	7.53	7.37	7.44	0.08	96	
10/6/2002	14.55	14.24	14.40	0.10	96		11/6/2002	10.21	9.43	9.85	0.25	96		12/6/2002	7.37	7.08	7.18	0.11	96	
10/7/2002	14.71	14.24	14.36	0.16	96		11/7/2002	9.90	9.74	9.83	0.08	96		12/7/2002	7.08	6.75	6.97	0.09	96	
10/8/2002	14.55	14.09	14.27	0.16	96		11/8/2002	9.74	9.11	9.48	0.21	96		12/8/2002	7.08	6.75	6.90	0.10	96	
10/9/2002	14.55	14.09	14.26	0.14	96		11/9/2002	9.11	8.96	9.04	0.09	96		12/9/2002	6.90	6.59	6.80	0.10	96	
10/10/2002	14.09	13.62	13.85	0.16	96		11/10/2002	9.11	8.96	9.08	0.05	96		12/10/2002	6.90	6.75	6.90	0.03	96	
10/11/2002	13.93	13.31	13.54	0.21	96		11/11/2002	9.11	8.96	9.03	0.08	96		12/11/2002	6.75	6.75	6.75	0.00	96	
10/12/2002	13.62	12.69	13.08	0.31	96		11/12/2002	9.43	8.96	9.14	0.18	96		12/12/2002	7.37	6.75	7.13	0.23	96	
10/13/2002	13.16	12.38	12.75	0.25	96		11/13/2002	9.27	9.11	9.15	0.07	96		12/13/2002	7.08	6.90	6.94	0.07	96	
10/14/2002	13.16	12.23	12.64	0.27	96		11/14/2002	9.27	8.96	9.10	0.08	96		12/14/2002	6.90	6.90	6.90	0.00	96	
10/15/2002	13.00	12.38	12.61	0.18	96		11/15/2002	8.96	8.50	8.72	0.10	96		12/15/2002	6.90	6.90	6.90	0.00	96	
10/16/2002	13.00	12.07	12.44	0.29	96		11/16/2002	8.80	8.65	8.69	0.07	96		12/16/2002	6.90	6.75	6.86	0.07	96	
10/17/2002	13.16	11.91	12.44	0.37	96		11/17/2002	8.65	8.65	8.65	0.00	96		12/17/2002	6.75	6.75	6.75	0.00	96	
10/18/2002	12.69	11.76	12.24	0.33	96		11/18/2002	8.65	8.65	8.65	0.00	96		12/18/2002	6.75	6.59	6.65	0.08	96	
10/19/2002	13.16	12.23	12.62	0.34	96		11/19/2002	8.80	8.50	8.65	0.08	96		12/19/2002	6.59	6.44	6.56	0.06	96	
10/20/2002	13.62	13.16	13.34	0.21	96		11/20/2002	9.01	8.71	8.89	0.11	96		12/20/2002	6.59	6.28	6.45	0.08	96	
10/21/2002	13.78	12.85	13.35	0.23	96		11/21/2002	9.05	8.71	8.91	0.09	94	Change	12/21/2002	6.28	6.13	6.24	0.07	96	
10/22/2002	13.31	12.23	12.81	0.32	96		11/22/2002	9.05	8.74	8.87	0.08	96		12/22/2002	6.28	6.28	6.28	0.00	96	
10/23/2002	12.69	11.60	12.03	0.35	96		11/23/2002	8.74	8.26	8.54	0.11	96		12/23/2002	6.28	6.13	6.24	0.07	96	
10/24/2002	12.38	11.29	11.80	0.31	96		11/24/2002	8.29	7.98	8.16	0.08	96		12/24/2002	6.13	5.97	6.04	0.08	96	
10/25/2002	12.07	11.29	11.67	0.31	96		11/25/2002	8.13	7.98	7.82	0.12	96		12/25/2002	5.97	5.81	5.90	0.08	96	
10/26/2002	12.07	11.76	11.88	0.10	96		11/26/2002	7.82	7.53	7.67	0.09	96		12/26/2002	6.13	5.97	6.01	0.07	96	
10/27/2002	11.76	11.60	11.67	0.08	100	Standard	11/27/2002	7.82	7.37	7.62	0.13	96		12/27/2002	5.97	5.65	5.91	0.08	96	
10/28/2002	11.91	11.45	11.67	0.13	96		11/28/2002	7.99	7.68	7.76	0.11	96		12/28/2002	5.65	5.34	5.61	0.07	96	
10/29/2002	11.60	10.68	11.13	0.30	96		11/29/2002	7.82	7.53	7.63	0.11	96		12/29/2002	5.34	5.20	5.30	0.07	96	
10/30/2002	10.99	10.21	10.60	0.25	96		11/30/2002	7.68	7.37	7.44	0.08	96		12/30/2002	5.65	5.20	5.38	0.16	96	
10/31/2002	10.83	9.90	10.25	0.33	96									12/31/2002	5.65	5.50	5.57	0.07	96	
Oct-2002	Max	Min	Mean	Stdev	N		Nov-2002	Max	Min	Mean	Stdev	N		Dec-2002	Max	Min	Mean	Stdev	N	
Max	15.19	14.39	14.69	0.37	100.00		Max	10.52	9.74	9.98	0.33	96.00		Max	7.68	7.53	7.65	0.23	96.00	
Min	10.83	9.90	10.25	0.08	96.00		Min	7.68	7.37	7.44	0.00	94.00		Min	5.34	5.20	5.30	0.00	96.00	
Mean	13.27	12.50	12.88	0.22	96.13		Mean	9.03	8.65	8.83	0.12	95.93		Mean	6.68	6.49	6.60	0.07	96.00	
N	31	31	31	31	31		N	30	30	30	30	30		N	31	31	31	31	31	

Comments: October 27 2002 Change to Standard Time
November 21 2002 Change to Onset Tidbit 292786

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Temperature Logger: Onset Tidbit 262786

Temperature Correction Factor
Calibration Date: 9-Oct-02
a= 0.066771193
b= 0.99589927

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
1/1/2003	5.81	5.65	5.70	0.07	96		2/1/2003	5.34	5.20	5.26	0.07	96		3/1/2003	6.28	4.89	5.41	0.37	96	
1/2/2003	5.81	5.65	5.66	0.04	96		2/2/2003	5.50	5.20	5.34	0.11	96		3/2/2003	6.75	6.13	6.43	0.21	96	
1/3/2003	5.81	5.65	5.74	0.08	96		2/3/2003	5.50	5.20	5.29	0.11	96		3/3/2003	7.06	6.44	6.64	0.21	96	
1/4/2003	5.81	5.65	5.73	0.08	96		2/4/2003	5.50	5.20	5.36	0.10	96		3/4/2003	6.75	5.97	6.36	0.20	96	
1/5/2003	5.81	5.65	5.80	0.04	96		2/5/2003	5.50	5.04	5.34	0.12	96		3/5/2003	6.75	6.44	6.57	0.09	96	
1/6/2003	5.97	5.65	5.79	0.08	96		2/6/2003	5.50	4.89	5.13	0.22	96		3/6/2003	6.28	5.36	5.83	0.21	96	
1/7/2003	5.81	5.65	5.74	0.08	96		2/7/2003	5.34	4.89	5.08	0.13	96		3/7/2003	5.80	4.73	5.11	0.20	96	
1/8/2003	5.81	5.50	5.69	0.10	96		2/8/2003	5.34	4.89	5.11	0.12	96		3/8/2003	4.89	4.28	4.54	0.10	96	
1/9/2003	5.65	5.34	5.46	0.11	96		2/9/2003	5.34	5.04	5.19	0.10	96		3/9/2003	4.41	4.10	4.21	0.10	96	
1/10/2003	5.50	5.20	5.29	0.08	96		2/10/2003	5.65	5.20	5.40	0.20	96		3/10/2003	5.65	4.28	4.80	0.91	96	
1/11/2003	5.34	5.04	5.22	0.08	96		2/11/2003	5.81	5.20	5.57	0.16	96		3/11/2003	5.65	5.04	5.24	0.15	96	
1/12/2003	5.34	5.20	5.28	0.06	96		2/12/2003	5.50	4.73	5.05	0.24	96		3/12/2003	5.20	4.89	4.99	0.10	96	
1/13/2003	5.34	5.20	5.33	0.05	96		2/13/2003	5.34	4.57	4.94	0.24	96		3/13/2003	5.65	4.89	5.24	0.30	96	
1/14/2003	5.50	5.20	5.30	0.09	96		2/14/2003	5.50	5.04	5.22	0.20	96		3/14/2003	5.80	5.34	5.40	0.09	96	
1/15/2003	5.34	5.20	5.24	0.07	96		2/15/2003	5.50	5.34	5.40	0.08	96		3/15/2003	5.50	5.20	5.37	0.09	96	
1/16/2003	5.34	5.20	5.25	0.07	96		2/16/2003	5.81	5.34	5.49	0.17	96		3/16/2003	5.65	5.20	5.33	0.13	96	
1/17/2003	5.34	5.04	5.19	0.11	96		2/17/2003	5.81	5.04	5.44	0.28	96		3/17/2003	5.97	5.20	5.51	0.32	96	
1/18/2003	5.20	4.73	4.97	0.11	96		2/18/2003	5.50	4.89	5.19	0.19	96		3/18/2003	5.65	5.34	5.47	0.09	96	
1/19/2003	5.20	4.89	5.07	0.13	96		2/19/2003	5.34	5.34	5.34	0.00	96		3/19/2003	5.34	4.89	5.13	0.14	96	
1/20/2003	5.34	5.20	5.26	0.07	96		2/20/2003	5.34	5.20	5.30	0.07	96		3/20/2003	5.34	4.89	5.09	0.15	96	
1/21/2003	5.20	5.04	5.11	0.08	96		2/21/2003	5.65	5.20	5.41	0.17	96		3/21/2003	5.50	5.04	5.25	0.13	96	
1/22/2003	5.20	4.41	4.72	0.26	96		2/22/2003	5.65	5.20	5.39	0.15	96		3/22/2003	5.97	5.20	5.52	0.33	96	
1/23/2003	5.04	4.57	4.73	0.15	96		2/23/2003	5.50	4.89	5.19	0.18	96		3/23/2003	6.13	5.65	5.84	0.16	96	
1/24/2003	5.20	4.89	5.05	0.09	96		2/24/2003	5.34	4.73	4.97	0.23	96		3/24/2003	5.97	5.50	5.72	0.19	96	
1/25/2003	5.20	5.04	5.15	0.06	96		2/25/2003	5.50	4.57	5.01	0.36	96		3/25/2003	6.28	5.50	5.83	0.20	96	
1/26/2003	5.34	5.20	5.31	0.07	96		2/26/2003	5.50	4.89	5.21	0.21	96		3/26/2003	6.13	5.80	5.71	0.24	96	
1/27/2003	5.50	5.20	5.33	0.06	96		2/27/2003	5.20	4.73	4.98	0.19	96		3/27/2003	6.28	5.34	5.71	0.34	96	
1/28/2003	5.20	5.04	5.17	0.06	96		2/28/2003	5.81	5.04	5.27	0.26	96		3/28/2003	5.97	5.50	5.74	0.17	96	
1/29/2003	5.20	5.04	5.06	0.05	96									3/29/2003	5.81	5.65	5.68	0.06	96	
1/30/2003	5.20	5.04	5.05	0.03	96									3/30/2003	6.28	5.80	5.72	0.24	96	
1/31/2003	5.65	5.20	5.37	0.15	96									3/31/2003	7.06	6.28	6.57	0.27	96	
Jan-2003	Max	Min	Mean	Stdev	N		Feb-2003	Max	Min	Mean	Stdev	N		Mar-2003	Max	Min	Mean	Stdev	N	
Max	5.97	5.65	5.80	0.26	96.00		Max	5.81	5.34	5.57	0.35	96.00		Max	7.06	6.44	6.64	0.37	96.00	
Min	5.04	4.41	4.72	0.03	96.00		Min	5.20	4.57	4.94	0.00	96.00		Min	4.41	4.10	4.21	0.08	96.00	
Mean	5.45	5.20	5.31	0.09	96.00		Mean	5.51	5.02	5.24	0.17	96.00		Mean	5.91	5.29	5.55	0.21	96.00	
N	31	31	31	31	31		N	28	28	28	28	28		N	31	31	31	31	31	

Comments:

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 128 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
292766

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.085771193
b= 0.99588927

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
4/1/2003	7.90	6.39	6.75	0.20	96		5/1/2003	11.63	9.67	10.49	0.61	96		6/1/2003	15.67	10.08	10.57	0.31	96	
4/2/2003	6.58	6.13	6.32	0.10	96		5/2/2003	12.91	9.51	11.20	1.24	96		6/2/2003	16.66	10.08	10.76	0.40	96	
4/3/2003	6.59	5.97	6.20	0.26	96		5/3/2003	13.37	10.60	12.32	0.93	96		6/3/2003	16.81	12.91	13.22	0.90	96	
4/4/2003	7.22	5.65	6.38	0.61	96		5/4/2003	11.06	9.58	10.51	0.28	96		6/4/2003	14.92	12.30	13.60	0.84	96	
4/5/2003	6.75	6.13	6.51	0.14	96		5/5/2003	12.91	9.96	11.03	1.07	96		6/5/2003	16.73	13.37	15.37	1.76	96	
4/6/2003	7.37	5.97	6.53	0.57	92	DayAght	5/6/2003	11.68	10.28	10.82	0.47	96		6/6/2003	16.41	10.08	10.53	1.24	96	
4/7/2003	7.06	6.75	6.82	0.12	96		5/7/2003	11.63	10.28	11.06	0.57	96		6/7/2003	17.60	14.30	16.03	0.83	96	
4/8/2003	6.90	6.58	6.76	0.11	96		5/8/2003	12.75	11.06	11.72	0.56	96		6/8/2003	17.77	14.14	16.05	1.24	96	
4/9/2003	7.06	6.58	6.74	0.20	96		5/9/2003	12.91	10.91	11.62	0.72	96		6/9/2003	16.41	16.90	17.43	0.53	96	
4/10/2003	6.90	6.44	6.67	0.11	96		5/10/2003	13.37	10.75	11.95	0.75	96		6/10/2003	16.89	16.03	17.60	0.82	96	
4/11/2003	7.06	6.59	6.82	0.20	96		5/11/2003	13.37	9.82	11.79	1.12	96		6/11/2003	16.73	16.19	17.40	0.88	96	
4/12/2003	7.53	6.75	7.03	0.21	96		5/12/2003	15.55	12.30	14.34	0.82	96		6/12/2003	16.73	17.77	16.39	0.30	96	
4/13/2003	7.66	6.75	7.11	0.35	95		5/13/2003	14.45	11.68	13.04	0.73	95		6/13/2003	16.73	17.44	16.02	0.90	96	
4/14/2003	7.82	6.75	7.32	0.40	96		5/14/2003	13.06	11.22	12.22	0.64	96		6/14/2003	16.69	16.81	17.34	0.33	96	
4/15/2003	7.53	7.22	7.36	0.12	96		5/15/2003	13.06	12.30	12.67	0.26	96		6/15/2003	17.44	16.50	16.94	0.36	96	
4/16/2003	7.22	6.75	6.98	0.10	96		5/16/2003	13.68	12.30	12.90	0.51	96		6/16/2003	17.77	16.34	16.95	0.47	96	
4/17/2003	8.13	6.75	7.35	0.57	96		5/17/2003	14.45	12.60	13.32	0.57	96		6/17/2003	17.60	16.87	16.73	0.71	96	
4/18/2003	8.74	7.96	8.33	0.29	96		5/18/2003	14.92	12.91	13.80	0.55	96		6/18/2003	19.22	17.13	18.06	0.79	96	
4/19/2003	8.44	7.37	7.70	0.40	96		5/19/2003	13.21	11.99	12.63	0.44	96		6/19/2003	19.05	17.44	18.43	0.45	96	
4/20/2003	7.82	6.75	7.22	0.37	96		5/20/2003	13.68	12.91	13.28	0.30	96		6/20/2003	17.93	17.29	17.61	0.22	96	
4/21/2003	7.96	6.75	7.31	0.42	96		5/21/2003	13.52	12.46	12.90	0.27	96		6/21/2003	18.09	17.29	17.60	0.26	96	
4/22/2003	9.67	7.37	8.31	0.80	96		5/22/2003	12.91	11.99	12.52	0.25	96		6/22/2003	17.60	16.66	17.10	0.35	96	
4/23/2003	9.21	7.96	8.66	0.31	96		5/23/2003	11.99	11.22	11.58	0.20	96		6/23/2003	17.60	16.24	16.99	0.40	96	
4/24/2003	8.28	7.66	7.99	0.19	96		5/24/2003	12.46	10.91	11.74	0.59	96		6/24/2003	16.81	15.39	16.13	0.52	96	
4/25/2003	9.21	8.13	8.40	0.30	96		5/25/2003	13.68	12.30	13.00	0.44	96		6/25/2003	17.77	15.39	16.54	0.90	96	
4/26/2003	9.21	8.13	8.54	0.40	96		5/26/2003	14.30	12.60	13.27	0.75	96		6/26/2003	18.57	16.90	17.32	0.73	96	
4/27/2003	10.91	8.44	9.44	0.93	96		5/27/2003	14.14	12.30	13.20	0.63	96		6/27/2003	18.57	15.71	17.00	1.03	96	
4/28/2003	11.37	7.66	9.89	1.08	96		5/28/2003	13.99	12.46	13.11	0.66	96		6/28/2003	18.89	16.19	17.30	1.00	96	
4/29/2003	11.52	6.75	8.59	1.51	96		5/29/2003	14.30	13.06	13.68	0.37	96		6/29/2003	18.09	16.66	17.41	0.54	96	
4/30/2003	10.44	8.59	9.52	0.61	96		5/30/2003	13.37	12.60	12.97	0.26	96		6/30/2003	18.73	17.13	18.01	0.68	96	
							5/31/2003	15.67	12.75	14.38	0.86	96								
Apr-2003	Max	Min	Mean	Stdev	N		May-2003	Max	Min	Mean	Stdev	N		Jun-2003	Max	Min	Mean	Stdev	N	
Max	11.52	8.59	9.89	1.51	96.00		Max	15.67	13.06	14.38	1.24	96.00		Max	19.22	17.77	18.43	1.75	96.00	
Min	6.59	5.65	6.20	0.10	92.00		Min	11.06	9.51	10.49	0.20	96.00		Min	14.92	12.30	13.60	0.22	96.00	
Mean	8.18	6.90	7.52	0.41	95.87		Mean	13.37	11.54	12.43	0.61	96.00		Mean	17.94	15.88	16.88	0.68	96.00	
N	30	30	30	30	30		N	31	31	31	31	31		N	30	30	30	30	30	

Comments: April 6 2003 Change to Pacific DayAght Saving Time

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger Onset Tidbit 292786

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.086771193
b= 0.99586927

Temperature Logger Onset Tidbit 378682

Calibration Date 9-Oct-02
a= 0.168116734
b= 0.995233505

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
7/1/2003	20.34	18.41	19.14	0.73	96		8/1/2003	21.66	19.38	20.33	0.87	96		9/1/2003	19.70	17.77	18.38	0.60	96	
7/2/2003	20.02	19.22	19.56	0.24	96		8/2/2003	22.48	20.83	21.52	0.57	96		9/2/2003	19.22	17.29	18.01	0.59	96	
7/3/2003	20.34	18.73	19.40	0.59	96		8/3/2003	21.99	20.50	21.11	0.48	96		9/3/2003	19.05	17.44	17.97	0.54	96	
7/4/2003	19.70	18.73	19.09	0.28	96		8/4/2003	21.82	20.02	20.79	0.61	96		9/4/2003	19.22	17.44	18.21	0.62	96	
7/5/2003	20.02	18.57	19.15	0.47	96		8/5/2003	21.16	19.70	20.39	0.48	96		9/5/2003	18.57	18.25	18.43	0.12	96	
7/6/2003	19.70	18.25	18.89	0.51	96		8/6/2003	21.32	19.38	20.13	0.74	96		9/6/2003	18.41	17.13	17.69	0.46	96	
7/7/2003	19.38	18.09	18.68	0.46	96		8/7/2003	21.82	20.67	21.18	0.36	96		9/7/2003	18.25	17.29	17.60	0.36	96	
7/8/2003	19.05	17.93	18.49	0.38	96		8/8/2003	21.49	20.18	20.73	0.44	96		9/8/2003	18.57	17.13	17.70	0.44	96	
7/9/2003	19.86	18.57	19.08	0.39	96		8/9/2003	21.66	20.02	20.77	0.58	96		9/9/2003	19.22	16.98	17.79	0.74	96	
7/10/2003	20.02	17.77	18.70	0.84	96		8/10/2003	21.82	20.99	21.37	0.27	96		9/10/2003	17.77	17.13	17.34	0.17	96	
7/11/2003	20.18	18.57	19.26	0.60	96		8/11/2003	21.16	20.50	20.86	0.23	96		9/11/2003	18.49	17.60	17.99	0.19	91	Change
7/12/2003	19.54	18.57	19.07	0.36	96		8/12/2003	22.16	20.18	20.88	0.69	96		9/12/2003	18.81	17.21	17.79	0.51	96	
7/13/2003	19.54	19.05	19.18	0.13	96		8/13/2003	21.32	20.18	20.64	0.27	96		9/13/2003	17.52	16.58	16.93	0.24	96	
7/14/2003	19.05	18.57	18.73	0.15	96		8/14/2003	21.99	19.86	20.64	0.69	96		9/14/2003	18.49	16.42	17.20	0.77	96	
7/15/2003	19.54	18.09	18.68	0.54	96		8/15/2003	20.99	19.54	20.26	0.48	96		9/15/2003	18.01	17.06	17.47	0.27	96	
7/16/2003	19.05	18.25	18.46	0.17	96		8/16/2003	21.99	19.86	20.73	0.77	96		9/16/2003	18.17	16.58	17.19	0.56	96	
7/17/2003	19.54	18.09	18.70	0.53	96		8/17/2003	22.16	21.16	21.70	0.31	96		9/17/2003	17.37	16.27	16.75	0.26	96	
7/18/2003	19.38	17.77	18.52	0.59	96		8/18/2003	21.99	20.50	21.06	0.49	96		9/18/2003	16.27	15.47	15.72	0.21	96	
7/19/2003	18.89	17.93	18.28	0.22	96		8/19/2003	21.82	20.83	21.13	0.31	96		9/19/2003	16.11	15.47	15.70	0.23	96	
7/20/2003	18.89	18.25	18.49	0.23	96		8/20/2003	21.49	19.22	20.55	0.45	96		9/20/2003	16.11	15.01	15.48	0.36	96	
7/21/2003	19.86	18.41	18.95	0.55	96		8/21/2003	20.99	18.57	19.70	0.77	96		9/21/2003	15.47	15.01	15.23	0.18	96	
7/22/2003	19.22	17.77	18.40	0.51	96		8/22/2003	20.99	19.38	19.96	0.58	96		9/22/2003	15.79	15.01	15.32	0.26	96	
7/23/2003	19.70	18.25	18.84	0.54	96		8/23/2003	20.83	18.89	19.76	0.62	96		9/23/2003	16.42	15.47	15.74	0.33	96	
7/24/2003	20.67	18.89	19.71	0.64	96		8/24/2003	19.70	18.73	19.05	0.24	96		9/24/2003	15.47	14.69	15.02	0.21	96	
7/25/2003	20.67	19.38	19.91	0.45	96		8/25/2003	18.73	17.93	18.17	0.22	96		9/25/2003	15.63	14.85	15.14	0.28	96	
7/26/2003	20.02	18.41	19.24	0.55	96		8/26/2003	18.89	17.44	17.95	0.45	96		9/26/2003	15.95	14.85	15.20	0.35	96	
7/27/2003	20.18	18.89	19.42	0.47	96		8/27/2003	18.73	17.44	17.85	0.44	96		9/27/2003	16.58	14.38	15.20	0.72	96	
7/28/2003	20.34	19.05	19.60	0.48	96		8/28/2003	19.05	17.29	17.82	0.59	96		9/28/2003	17.69	14.53	15.68	1.23	96	
7/29/2003	20.99	18.89	19.81	0.76	96		8/29/2003	18.89	17.29	17.82	0.56	96		9/29/2003	17.52	14.85	16.03	0.93	96	
7/30/2003	20.83	19.54	20.05	0.45	96		8/30/2003	18.73	17.29	17.87	0.46	96		9/30/2003	16.27	15.01	15.55	0.35	96	
7/31/2003	20.67	19.22	19.88	0.55	96		8/31/2003	18.89	17.60	18.06	0.45	96								
Jul-2003	Max	Min	Mean	Stdev	N		Aug-2003	Max	Min	Mean	Stdev	N		Sep-2003	Max	Min	Mean	Stdev	N	
Max	20.99	19.54	20.05	0.84	96.00		Max	22.48	21.16	21.70	0.87	96.00		Max	19.70	18.25	18.43	1.23	96.00	
Min	18.89	17.77	18.28	0.13	96.00		Min	18.73	17.29	17.82	0.22	96.00		Min	15.47	14.38	15.02	0.12	91.00	
Mean	19.84	18.52	19.06	0.46	96.00		Mean	20.92	19.40	20.03	0.50	96.00		Mean	17.54	16.21	16.72	0.44	95.83	
N	31	31	31	31	31		N	31	31	31	31	31		N	30	30	30	30	30	

Comments: September 11 2003 Change to Tidbit 378682

Appendix B: (cont'd)

Monthly Daily Water Temperatures

Glendale Spawning Channel Inlet

Longitude W 125 43.3295
Latitude N 50 39.0673
UTM E
UTM N

Temperature Logger
Onset Tidbit
378682

Temperature Correction Factor
Calibration Date 9-Oct-02
a= 0.168116734
b= 0.995233505

Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments	Date	Max	Min	Mean	StDev	Count	Comments
10/1/2003	16.11	15.01	15.43	0.35	96		11/1/2003	8.98	8.52	8.72	0.20	96		12/1/2003						
10/2/2003	15.95	15.01	15.30	0.31	96		11/2/2003	8.83	8.52	8.64	0.13	96								
10/3/2003	16.58	14.69	15.29	0.64	96		11/3/2003	8.83	8.06	8.39	0.26	96								
10/4/2003	15.95	15.17	15.44	0.31	96		11/4/2003	8.37	7.90	8.14	0.18	96								
10/5/2003	15.95	15.17	15.48	0.26	96		11/5/2003	8.21	7.59	7.89	0.19	96								
10/6/2003	15.63	15.17	15.30	0.17	96		11/6/2003	7.90	7.28	7.61	0.22	96								
10/7/2003	15.95	15.17	15.44	0.33	96		11/7/2003	7.75	7.12	7.43	0.23	96								
10/8/2003	15.63	14.38	15.08	0.29	96		11/8/2003	7.75	7.28	7.48	0.17	96								
10/9/2003	14.85	14.07	14.39	0.29	96		11/9/2003	7.44	6.98	7.27	0.18	96								
10/10/2003	14.85	14.22	14.48	0.20	96		11/10/2003	7.44	7.28	7.36	0.08	96								
10/11/2003	14.38	13.76	14.10	0.17	96		11/11/2003	7.59	7.28	7.36	0.09	96								
10/12/2003	13.76	13.45	13.63	0.12	96		11/12/2003	7.44	7.28	7.37	0.08	96								
10/13/2003	13.76	13.31	13.55	0.12	96		11/13/2003	7.28	7.12	7.23	0.07	96								
10/14/2003	13.61	13.00	13.30	0.14	96		11/14/2003	7.28	7.12	7.20	0.08	96								
10/15/2003	13.00	12.69	12.85	0.11	96		11/15/2003	7.28	7.12	7.20	0.08	96								
10/16/2003	12.84	12.38	12.55	0.12	96		11/16/2003	7.12	7.12	7.12	0.00	96								
10/17/2003	12.38	12.38	12.38	0.00	96		11/17/2003	7.28	6.98	7.11	0.05	96								
10/18/2003	12.53	12.07	12.35	0.14	96		11/18/2003	7.12	6.98	7.04	0.07	96								
10/19/2003	12.38	11.75	12.17	0.27	96		11/19/2003	6.98	6.82	6.96	0.06	41								
10/20/2003	11.91	11.44	11.74	0.17	96															
10/21/2003	12.22	11.75	11.99	0.11	96															
10/22/2003	12.38	12.07	12.21	0.06	96															
10/23/2003	12.38	11.91	12.04	0.13	96															
10/24/2003	11.91	11.60	11.76	0.05	96															
10/25/2003	11.75	11.44	11.60	0.09	96															
10/26/2003	11.60	11.29	11.36	0.11	100	Standard														
10/27/2003	11.44	11.29	11.34	0.07	96															
10/28/2003	11.60	11.15	11.36	0.11	96															
10/29/2003	11.15	7.90	10.47	1.03	96															
10/30/2003	8.83	7.44	8.13	0.44	96															
10/31/2003	8.98	7.90	8.52	0.32	96															

Oct-2003	Max	Min	Mean	Stdev	N
Max	16.58	15.17	15.48	1.03	100.00
Min	8.83	7.44	8.13	0.00	96.00
Mean	13.30	12.58	12.94	0.23	96.13
N	31	31	31	31	31

Nov-2003	Max	Min	Mean	Stdev	N
Max	8.98	8.52	8.72	0.26	96.00
Min	6.98	6.82	6.96	0.00	41.00
Mean	7.73	7.39	7.56	0.13	93.11
N	19	19	19	19	19

Dec-2003	Max	Min	Mean	Stdev	N
Max					
Min					
Mean					
N					

Comments: October 26 2003 Change to Pacific Standard Time
November 19 2003 Last Download, probe still logging